

Sonat Exploration Company
Post Office Box 1618
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

January 13, 1983

Re: Dean, #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Gentlemen:

Enclosed, in triplicate, is Form OGC-1a, "Application for Permit to Drill," concerning the subject well. Also included are copies of the surveyed plat and blowout preventer program.

If you require additional information, please call me at 713/940-4014.

Sincerely,



D. E. Richards
Senior Drilling Engineer

DAVIS

BTS/jlp
Enclsoures

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT TRIPLICATE*
 (Other instructions on
 reverse side)

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

Fee

8. Farm or Lease Name

Dean

9. Well No.

#1-7C1

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk.
and Survey or Area

Sec. 7, T3S, R1W

12. County or Parrish 13. State

Duchesne Utah

1a. Type of Work

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. Type of Well

Oil
Well ☒Gas
Well ☐

Other

Single
Zone ☐Multiple
Zone ☐

2. Name of Operator

Sonat Exploration Company

3. Address of Operator

P. O. Box 1513; Houston, TX 77251-1513

4. Location of Well (Report location clearly and in accordance with any State requirements.*)

At surface

500' FWL & 500' FSL of Sec. 7, T3S, R1W

At proposed prod. zone

Straight Hole

14. Distance in miles and direction from nearest town or post office*

2.75 miles N-NW of Myton, Utah

15. Distance from proposed*

location to nearest
property or lease line, ft.
(Also to nearest drlg. line, if any)

500

16. No. of acres in lease

78.35

17. No. of acres assigned
to this well

640

18. Distance from proposed location*
to nearest well, drilling, completed,
or applied for, on this lease, ft.

N/A

19. Proposed depth

11,600'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5255 (ungrade G.L.)

22. Approx. date work will start*

March 1, 1983

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
24"	16"	65.0#	80'	100 sx
12-1/4"	10-3/4"	45.5#	3000'	250 sx
9-3/4"	7-5/8"	29.7#	0-9000'	---
9-3/4"	7-5/8"	33.7#	9000-9500'	1000 sx
6-1/2"	5-1/2"	23.0#	9100-11,600'	250 sx

RECEIVED

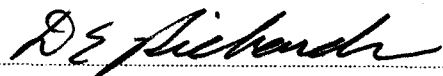
JAN 21 1983

**DIVISION OF
OIL, GAS & MINING**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed



Title

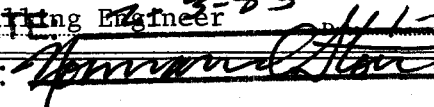
Senior Drilling Engineer

(This space for Federal or State office use)

BY:

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

DATE: 1-13-83



Permit No.

Approval Date

Approved by

Title

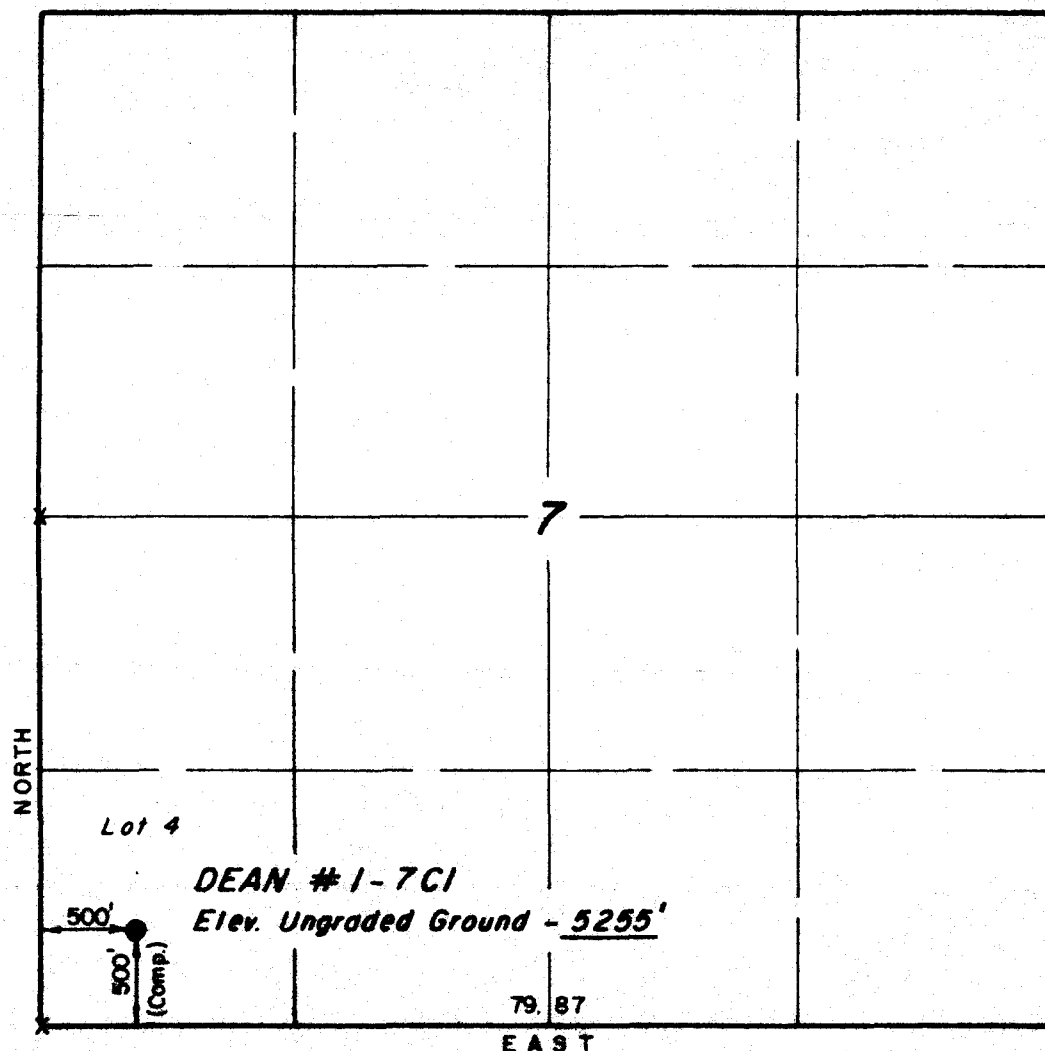
Date

Conditions of approval, if any:

T3S, RIW, U.S.B. & M.

PROJECT
SONAT EXPLORATION

Well location, DEAN # 1-7C1,
located as shown in the SW1/4
SW1/4 Section 7, T3S, RIW,
U.S.B. & M. Duchesne County,
Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lana Stewart
REGISTERED LAND SURVEYOR
REGISTRATION NO 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	1/06/83
PARTY	DA DK BK RP	REFERENCES	GLO Plat
WEATHER	Cold	FILE	SONAT

X = Section Corners Located

NOTE: Loc. to SW Cor. - $545^{\circ}00'23''W$ - 706.97'

EXPLORATION

#1-7C1
D LOCATION

1-26-83
MAP 'B'
1" = 2000'

CLASSIFICATION
— Light-duty
- - - - - ed chl
) State Route

UTAH

ANGLE LOCATION

Mylon City Res

123

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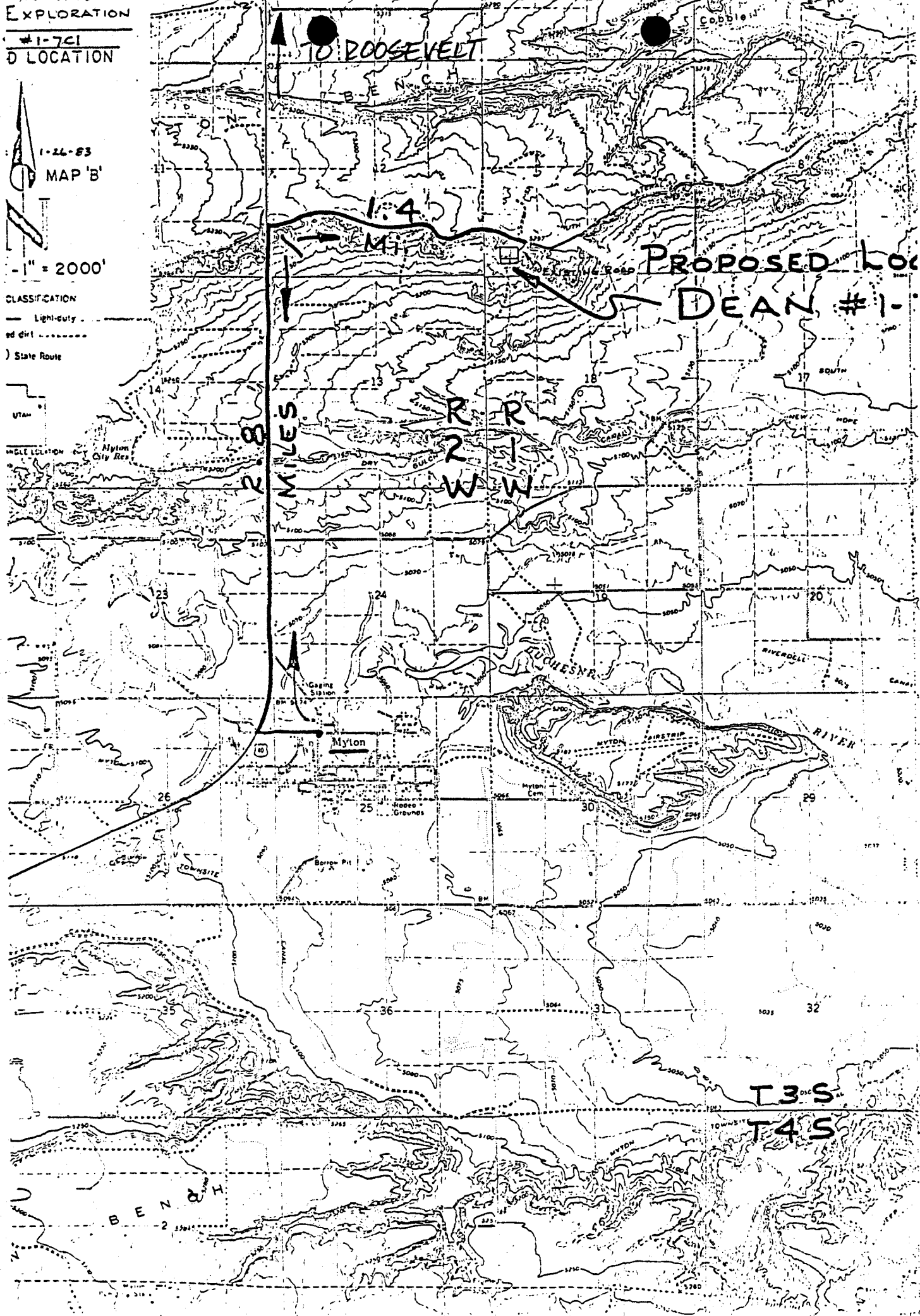
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SONAT EXPLORATION COMPANY
BLOWOUT PREVENTION PROGRAM

Well control operations for drilling out of the drive pipe provide an annular (BAG) type blowout preventer and a drilling spool, as shown on the attached drawing. The same blowout preventer and drilling spool will be used to drill out of the conductor casing for the surface casing hole.

For drilling below the surface casing, the blowout prevention equipment will include: 4 remote-controlled, hydraulically operated blowout preventers, including 2 equipped with pipe rams, 1 with blind rams, and 1 annular (BAG) type, drilling spool, choke line and manifold, kill line, and fill-up line. This equipment is shown on the attached drawing.

Critical Operation Plan:

Method of Diverter or BOP Operation (Hydraulic activation with manual backup)

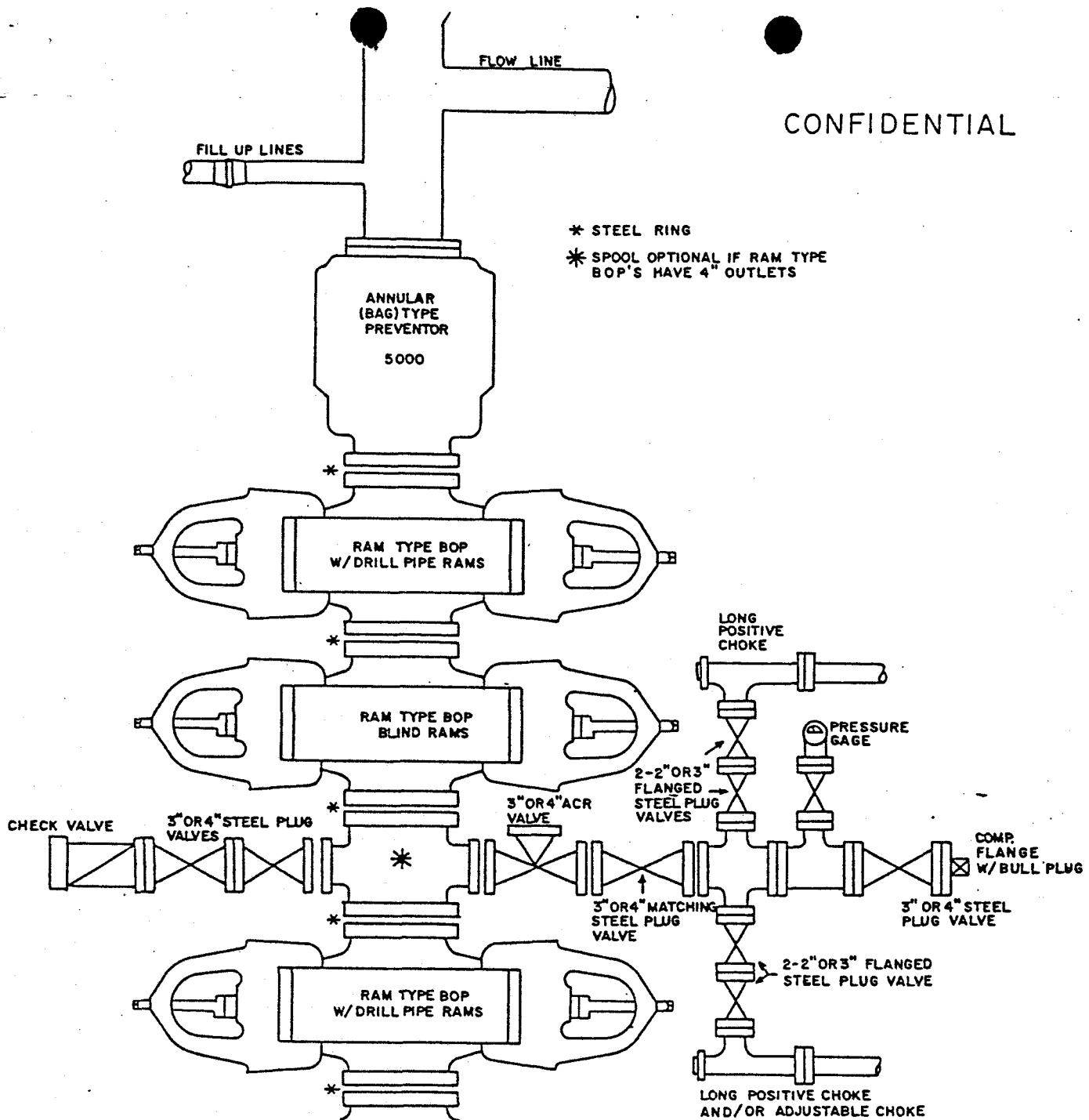
1. Pick up to clear kelly and tool joint.
2. Close Annular BOP.* Open Diverter.**
3. Circulate fluid of sufficient density to kill well without exceeding fracture gradient.
4. Open Annular BOP.* Close Diverter.**
5. Circulate bottoms up.
6. Continue with drilling operation.

*Upper pipe rams may be used if necessitated by pressure involved (for BOP stack operation only, not for diverter system operation).

**Diverter system operations only.

"CONFIDENTIAL"

CONFIDENTIAL

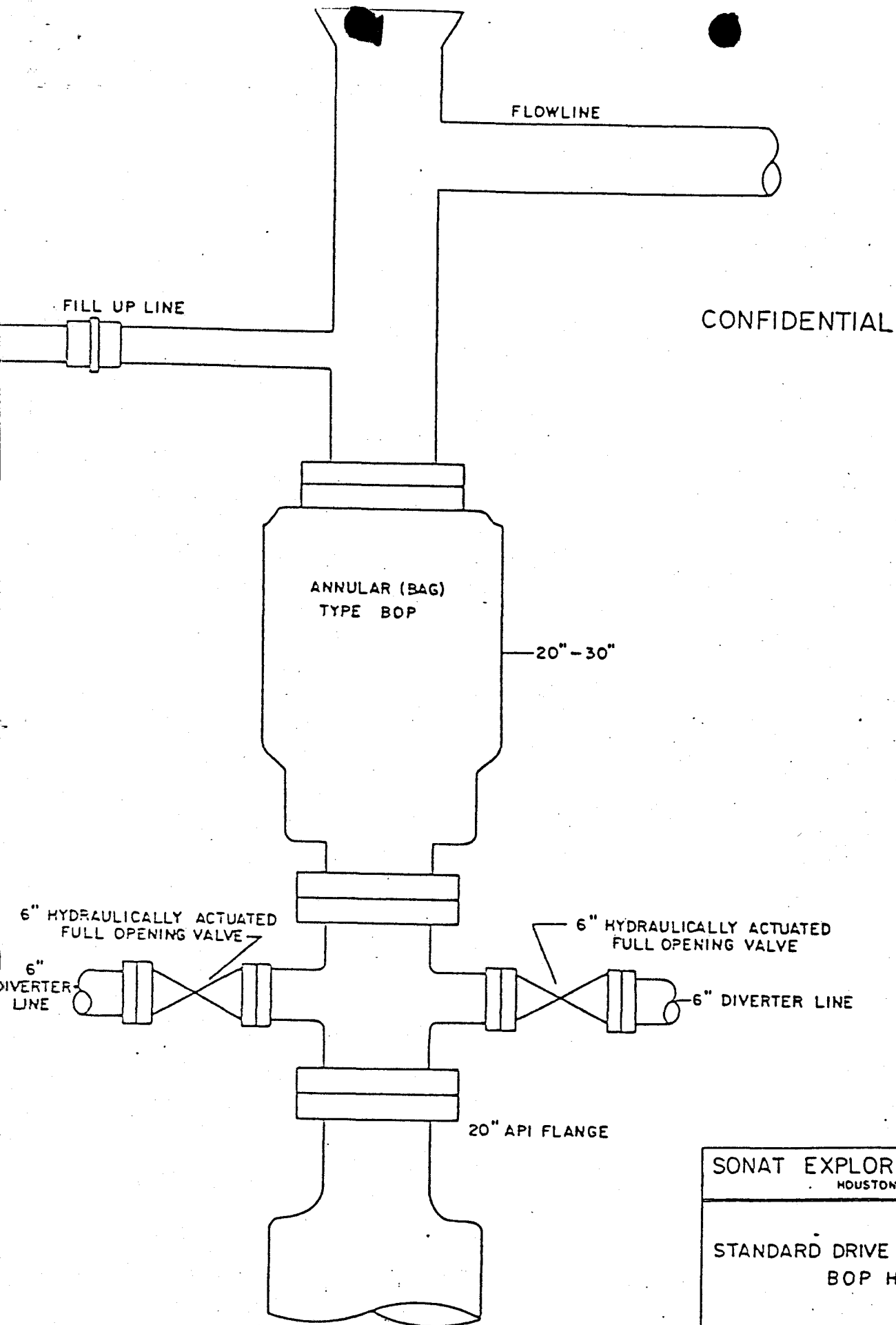


SURFACE Csg BOP PROGRAM = 5,000 WP psi
 PROTECTIVE Csg BOP PROGRAM = 10,000 WP psi

SONAT EXPLORATION COMPANY
 HOUSTON, TEXAS

STANDARD BOP HOOKUP
 FOR SURFACE
 AND PROTECTION CASING

DATA: MJS	REFERENCE	FILE
DATE: 1-4-81	80316-2	Misc. LEGAL
DRAWN: SALVADOR		



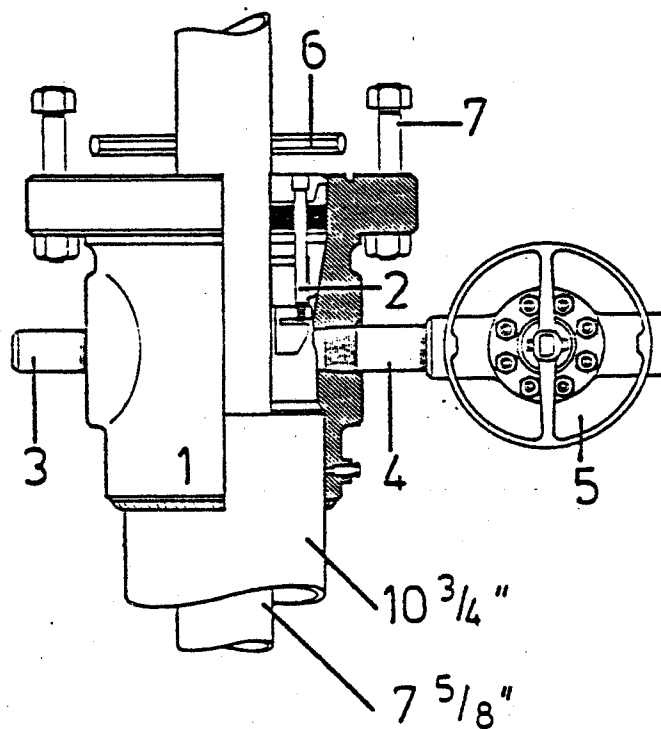
CONFIDENTIAL

SONAT EXPLORATION COMPANY
HOUSTON, TEXAS

STANDARD DRIVE & CONDUCTOR PIPE
BOP HOOKUP

500-3,000 # WP

DATE	REFERENCE	FILE
------	-----------	------



Sonat Exploration
Altomont
H3DO-0582

Cameron

IRON WORKS, INC.

P. O. BOX 1212
HOUSTON, TEXAS 77001

DRAWING NUMBER	REVISION
955812	

DRAWN BY <i>W. H. H.</i>	DATE 1-28-83	WORKING PRESSURE 5,000#	DRIFT NO 89310-
--------------------------	--------------	-------------------------	-----------------

Cameron

IRON WORKS, INC.

P. O. BOX 1212 — HOUSTON, TEXAS 77001

DATE	PAGE	BILL OF MATERIAL NUMBER
1/28/83	1	955812

SONAT EXPLORATION

H3DO-00582

INO: ALTOMONT

TERMS: NET 30

ITEM	ORDERED	SHIPPED	UNIT PRICE	PART NUMBER	DESCRIPTION	AMOUNT
					SECTION A	
					CASING HEAD HOUSING ASSEMBLY	
01	1		2748.00	16166-03-04-04	HOUSING, CSG HD WF 10 5000#WP X 10-3/4 OD SLIP ON W/TWO 2 LP OUTLS	
02	1		2420.00	17965-00-00-00	SLIP AND SEAL ASSY CA 10 X 7-5/8 INCL	
	1			8721-06-00-00	ALLEN WRENCH	
03	1		82.90	6994-04-00-00	PLUG, BULL, 2" LP X 3-3/4" LG MATL AISI 1018, NET WT. 3.50	
04	1		27.10	21013-12-00-00	NIPPLE 2 X 6 XX L.P. NET WT. 4.5	
05	1		1490.00	697331-13-01-00	VALVE, CAMERON ^{WKM} "PC" GATE 2-1/16" BORE 5000# WP S/E, REG TRIM, INCL	
	1			19937-01-00-00	HANDWHEEL	
06	1		36.29	6590-58-00-00	GASKET, STEEL RING R-54 NET WT 5.5	
07	12		24.37	6832-01-00-00	STUD, 1-7/8" X 14-1/2", MATL. A-193-B7, WT. 11.5	
07A	24		10.06	12955-37-10-00	NUT, 1-7/8" HEAVY HEX, CAD. PLTD. MATL. A194 GR 2H WT. 2.4#	
					TOTAL CASING HEAD HOUSING ASSEMBLY	
					TOTAL LIST PRICES	
					TOTAL HOUSTON, TEXAS PLANT (EX-WORKS) DOMESTIC BOXED IN U.S. DOLLARS	
					ESTIMATED DELIVERY: EX-STOCK CIW MILBY WAREHOUSE	
					DELIVERY PROMISES ARE FROM RECEIPT OF ORDER AND SUBJECT TO PRIOR SALE.	
					CAMERON'S TERMS AND CONDITIONS OF SALE SET FORTH IN ATTACHMENT, FORM A PART OF THIS QUOTATION AND SHALL APPLY TO ANY CONTRACT OF SALE.	
					QUOTATION VALIDITY DATE: 3/31/83	

SONAT EXPLORATION COMPANY

DRILLING PROCEDURE

Dean #1-7C1
Duchesne County, Utah

Prepared by: B.T. Simmons 2/1 Approved by: B.O. Carlson 2/2/83
B. T. Simmons B. O. Carlson Date

Concur: D.E. Richards 2/2 M.J. Simon 2/4/83
D. E. Richards M. J. Simon

R.H. Kerr 2/4/83
R. H. Kerr

DISTRIBUTION:

R. H. Kerr
M. J. Simon (3)
B. O. Carlson
D. E. Richards
T. A. Lee
B. T. Simmons Chron +1
V. O. Carmichael
H. E. Hamilton
J. H. Smith (Spectrum)
Central Files

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Well Data

AFE NO: 83-651-51

WELL NAME: Dean #1-7C1

AREA: Duchesne Co., Utah

LOCATION: 671' FWL & 500' FSL of Sec. 7, T3S, R1W

ELEVATION: 5255' (ungraded)

API NUMBER: 43-013-30739

RIG: Rio Grande Drilling Co., Rig #2

WELLHEAD: Cameron Iron Works (801/789-0732, Vernal)

MUD: Milchem (801/722-4513, Roosevelt)

CEMENT: Halliburton (801/789-2550, Vernal)

ELECTRIC LOGGING: Schlumberger (801/789-3394, Vernal)

CASING CREWS: Parrish Oil Tools (801/789-1698, Vernal)

RENTALS:

MUD LOGGING: Exploration Logging (303/371-2740, Denver)

DIRECTIONS TO LOCATION: Refer to Attachment G

DRILLING PROGNOSIS

FIELD: Myton, Duchesne Co., Utah

WELL: Dean #1-7C1

LOCATION - Surf: 671' FWL & 500' FSL of Sec. 7, T3S, R1W

PBHL: Straight Hole

OBJECTIVE: Green River, Wasatch

rec. surveys	Geol.	Formation Evaluation	Hole Deviation	Measured Depth (TVD)	Hole Size	Casing & Cement	Mud Type
			Straight Hole	75'	Rathole Service	20" Conductor	
	One set every 30'				12-1/4"		Fresh water, gel & lime
OTCO 1000' intervals				3000'		10-3/4", 45.5, K-55, ST&C 350 sx of Hall. LIGHT, followed w/ 320 sx of C1 "H" + 1/4 #/sx Flocele + 2% CaCl ₂ .	
	2 sets every 10', Mud Logger from 3000'	DIL/SFL/BHC Sonic/ Caliper NGS. EPT/LDT/CNL/GR. Stratigraphic dipmeter & vertical seismic profile.			9-1/2"		
							9500'± Low solids, non-dispersed, lightly treated system 8.5 - 10 ppg
				11,600'		7-5/8", 26.4#, 29.7#, 33.7# LT&C 400 sx High-Fill followed by	N-80

I. DRILLING PROGNOSIS

Have a rat-hole service set the conductor pipe prior to the rig move-in. The 20" conductor should be set at 75'± BGL.

SURFACE INTERVAL (0-3000')

Move in and rig up.

Drilling

1. Drill out of the 20" with a 12-1/4" bit. Continue drilling the 12-1/4" hole to 3000'±. Refer to Attachments B & C for bit selection and hydraulics guidelines.
2. Catch 1 set of samples at 30' intervals from the conductor to 3000'.

NOTE: In the event that shallow, freshwater sands are encountered, a minimum amount of drill water should be kept in the reserve pit. If in fact a shallow flow does occur, this precaution will eliminate the need to prematurely mud up the system. Drilling operations can continue while the shallow flow fills up the reserve pit.

Mud

Drill out of the conductor with fresh water. Occasional, viscous gel sweeps should be used to clean the hole and eliminate tight connections. Discard the contaminated fluid to the reserve pit. Additions of lime and a selective flocculant should be used to encourage the settling of drilled solids. All available solids control equipment should be run continuously and monitored hourly to insure proper operation. Bulk barite hoppers should be filled and installed as soon as practical after spudding the well.

<u>Depth</u>	<u>Weight (ppg)</u>	<u>Viscosity (sec/qt)</u>	<u>Filtrate</u>
0-3000'	Water	26-29	N/C

Logging

Log as per the Formation Evaluation program.

Casing

Run the 10-3/4" casing with the float collar one joint above the float shoe. Install centralizers on the bottom four joints with one centered on the shoe joint. Thread-loc the bottom two joints.

<u>Section</u>	<u>Interval</u>	<u>Length</u>	<u>Weight (#/ft)</u>	<u>Grade</u>	
I	0-3000'	3000'	50	K-55	
<u>Thread</u>	<u>I.D. (in)</u>	<u>Drift (in)</u>	<u>Burst (psi)</u>	<u>Collapse (psi)</u>	<u>Optimum Make-up Torque</u>
ST&C	9.850	9.694	4030	2700	6060 ft-lbs

Maximum allowable pull excluding block weight = 466,000 lbs.

Cement

Lead in with 350 sx of Halliburton LIGHT + 10#/sx Gilsonite + 1/4#/sx FLOCELE + 3% Salt + 2% CaCl₂ mixed to 12.2 lbs/gal with 10.9 gal/sx (yield = 2.14 cu.ft/sx, pumping time = 5 hours).

Tail-in with 320 sx of Cl "H" + 1/4 lb/sx FLOCELE + 2% CaCl₂ mixed to 15.6 #/gal with 5.2 gal/sx (yield = 1.18 cu.ft/sx, pumping time = 2-1/2 hours). If cement is not returned to the surface or falls after the job is complete, cement the 10-3/4" x 20" annulus using 1" pipe and Cl "H" neat.

PRODUCTION INTERVAL (3000-11,600')

Drilling

1. WOC for 4 hours. Cut off the 10-3/4" casing 1' above GL and weld on the 10-3/4", 5000#, Type "WF" casing head. NU 5000 psi BOPs and test same.
2. Displace the BOPs with water and test the casing to 1000 psig. If the pressure drops more than 10% in 30 minutes, report to Houston.
3. Drill the floats, cement and 15'+ of new formation. Spot a 30 bbl LWL pill on bottom, 15 cc's or less. Pull into the casing and test the formation to a 12.0 ppg MWE.
4. Drill a 9-1/2" hole to 11,600'. The anticipated top of the Wasatch transition is 9500'±; however, according to the offset well data available, abnormal pressure should not be encountered. The anticipated top of the Green River is 5200'± and abnormal pressure is again not expected. Refer to Attachments B and C for bit selection and hydraulics guidelines.
5. Mud logger should be on location, rigged up and begin logging at 3000'. Two sets of dry-washed samples should be caught every 10' from 3000' to total depth. Telecopy mud loggers report to Houston daily.

Mud

Drill out of the surface casing with fresh water, gel & lime. Keep drilled solids to a minimum thru additions of flocculant and by circulating the reserve pit. Water should be used to drill as deeply as is practical. When the carrying capacity of water becomes inadequate to keep the hole clean and background gas continues to climb, the system should be mudded-up. However, every attempt should be made to remain as close as possible to a balanced condition. Mud weights should be kept to a minimum. This is a key drilling technique that should be used to enhance the ultimate productivity of the well. Refer to the proposed mud weight curve.

<u>Depth</u>	<u>Weight (ppg)</u>	<u>Viscosity (sec/qt)</u>	<u>Filtrate</u>
3000-9500'±	Water	30-35	N/C
9500-11,600'±	8.5-10.0	35-45	15-18

After mudding up, pit dividers should remain closed and tank risers should be elevated to obtain a skimming action for solids removal.

Logging

Log as per the Formation Evaluation Program.

Casing

Run the 7-5/8" casing with the float collar two joints above the float shoe. Install one centralizer on the shoe joint and one on every other joint thereafter to 10,000'. Thread-Loc the bottom two joints.

<u>Section</u>	<u>Interval</u>	<u>Length</u>	<u>Weight (#/ft)</u>	<u>Grade</u>
I	9,500-11,600'	2100'	33.7	N-80
II	6,500-9,500'	3000'	29.7	N-80
III	0-6,500'	6500'	26.4	N-80

<u>Section</u>	<u>Thread</u>	<u>I.D. (in)</u>	<u>Drift (in)</u>	<u>Burst (psi)</u>	<u>Collapse (psi)</u>
I	LT&C	6.765	6.640	7900	6560
II	LT&C	6.875	6.750	6890	4790
III	LT&C	6.969	6.844	6020	3400

Maximum Allowable Pull (excluding block weight) = 377,000 lbs

Optimum Make-up Torque: 33.7#/ft = 6740 ft-lbs
29.7#/ft = 5750 ft-lbs
26.4#/ft = 4900 ft-lbs

Cement

Lead in with 400 sx of Cl "H" + 16% gel + 1% Econolite + 10#/sx Gilsonite + 1/4#/sx Flocele + 0.3% CFR-2 + 3% salt (by weight) mixed to 11.0#/gal with 23.3 gal/sx (yield = 3.88 cu.ft/sx, pumping time = based on lab test). Retard for four hours pumping time.

Tail in with 335 sx of 50/50 Pozmix + 0.6% Halad-24 + 0.5% CFR-2 + 1/4 lbs/sx Flocele mixed to 12.6#/gal w/9.06 gal/sx (yield = 1.69 cu.ft/sx). Retard for four hours pumping time.

SUBSEQUENT ACTION

A completion procedure will follow.

II. SPECIAL PRACTICES

1. Run drill pipe protectors above tool joint on every other joint of drill pipe rotating in casing.
2. Lab test all blended cement prior to pumping.
3. All copies of Contractor's drilling reports, mud service checks, bit records, etc., are to be collected, accounted for, and sent to the Houston office following the completion of the well.
4. Run an inclination survey every 1000' to TD.

III. NOTIFICATIONS

Houston Office	713/940-4000
M. J. Simon	713/437-2734
M. J. Lammers	713/664-1171
B. T. Simmons	713/266-4119

LOGGING AND FORMATION EVALUATION PROGRAM
DEAN #1-7C1

SAMPLES

Catch one set of samples cuttings at 30' intervals from surface to 3000'. Mud logger will collect two sets of dry-washed samples every 10' from 3000' to TD.

CORING

None.

DRILL STEM TESTING

None.

MUD LOGGER

From 3000' to total depth. Company will be specified at a later date.

ELECTRIC LOGS

A. At TD (11,600'):

1. Record DIL/SFL/BHC SONIC/CALIPER/NGS to previous casing point. Record log on logarithmic 5" and linear 2". Do not record Rwa curve.
2. Record EPT/LDT/CNL with GR. In addition to the normal curves, record the following:
 - a. On the LDT bulk density recording, record the weight indicator curve using a solid galvo in film track III. Record with zero at zero divisions of track III and full scale at 10 large divisions (right edge) of track III.
 - b. Record the LDT/CNL porosity in standard format on the other film can using a 45-15-(-15) porosity scale.
3. Side wall cores are not anticipated to be required.

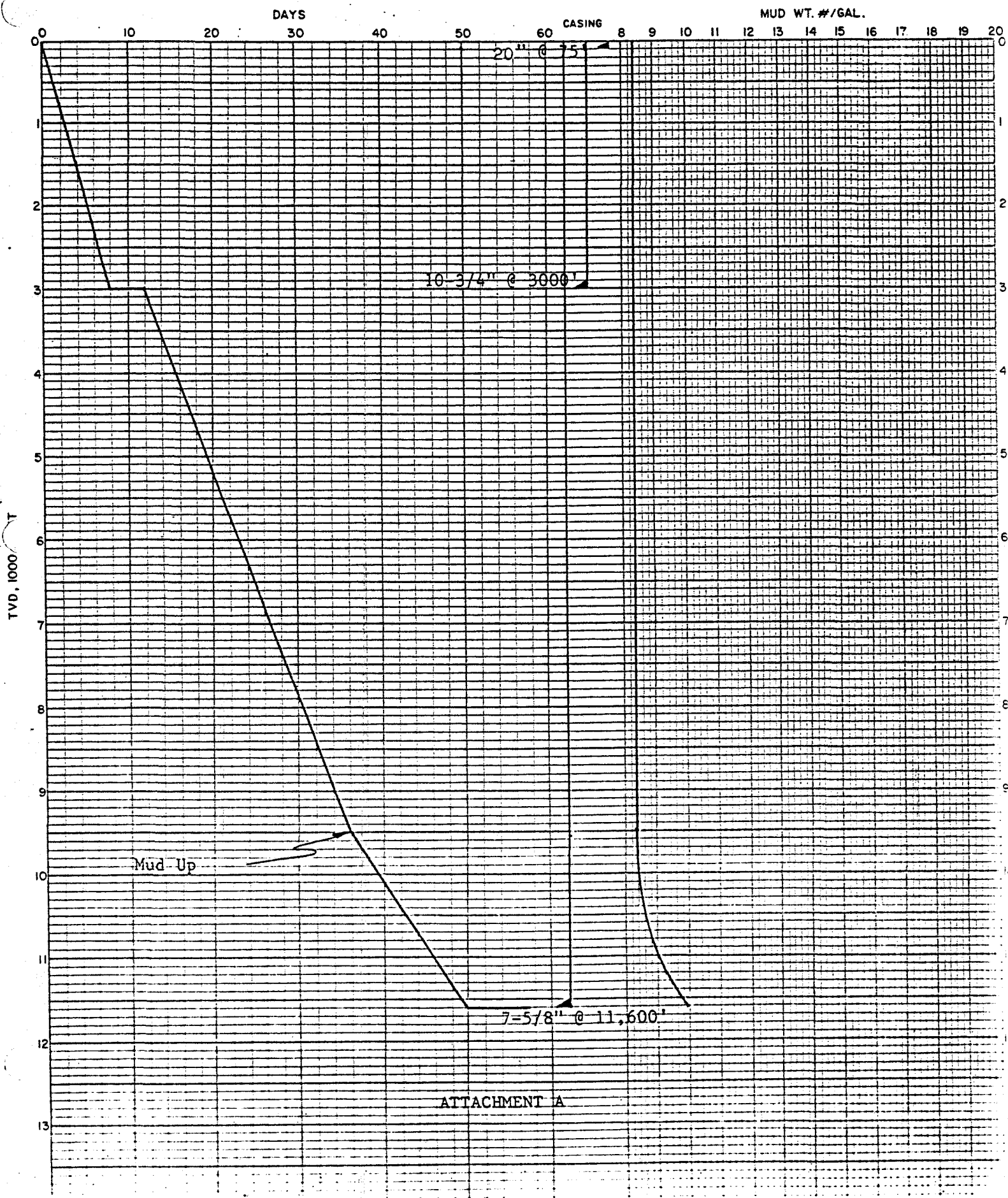
- B. Record 2" DIL on film and all curves on tape while going in hole over intervals specified as a precaution in case of sticking logging sonde.
- C. Have stand off placed on the head of all logging tools run in the hole.
- D. Be prepared to telecopy logs into Houston.
- E. Record Stratigraph Dipmeter from TD to 3000'.
- F. A Vertical Seismic Profile will be conducted at TD in the open hole.

SONAT EXPLORATION CO.
HOUSTON, TEXAS

AREA: Dean #1-7C1
Sec. T3S, R1W
Duchesne County, Utah

DRILLING CURVE

REFERENCE WELLS:
DATA BTS DRAWN BTS DATE 1/31/83



BIT PROGRAM

<u>No. of Bits</u>	<u>Size</u>	<u>API Code</u>	<u>Example</u>	<u>Depth Out</u>	<u>RPM</u>	<u>WOB (1000#)</u>
2	12-1/4"	1-1-4	X-3A	1,800'	140	20-40
1	12-1/4"	5-1-7	J-22	3,000'	70/100	30-40
2	9-1/2"	5-1-7	FP52	6,500'	50/70	40-45
1	9-1/2"	5-2-7	J-33	7,300'	70	45-50
7	9-1/2"	6-1-7	J-44	11,600'	65/70	45-50

Critical Rotating Speeds:

4-1/2" Drill Pipe = 210 RPM \pm 15%.

NOTE: The drilling parameters and bit examples presented above are to be used as a guide. If a different bit manufacturer is used, cross reference according to the API code. Additionally, WOB & RPM may have to be altered to optimize penetration rate.

ATTACHMENT B

HYDRAULICS PROGRAM

<u>Hole Size</u>	<u>Depth</u>	<u>MW (#/gal)</u>	<u>Nozzle Size</u>	<u>Flow Rate (BPM)</u>	<u>Pump Pressure (psi)</u>
12-1/4"	3,000'	Water	15-15-15	16	2000
9-1/2"	4,000'	Water	12-12-11	12	3000
9-1/2"	5,500'	Water	11-11-11	12	3000
9-1/2"	6,500'	Water	10-11-11	12	3000
9-1/2"	7,500'	Water	10-10-11	10	3000
9-1/2"	8,500'	Water	10-10-10	10	3000
9-1/2"	9,500'	8.8	11-10-10	10	3000
9-1/2"	10,500'	9.0	11-11-10	10	3000
9-1/2"	11,500'	9.8	11-11-11	10	3000

I. DRILL STRING DESIGN ASSUMPTIONS:

- * 4-1/2" O.D., 16.6#/ft drill pipe
- * BHA's: 12-1/4" hole - (7) 6-1/2" collars
(8) 8" collars
- 9-1/2" hole - (21) 6-1/2" collars
(6-18) 4.5" Hevi-wate

- * Mud Pumps:
(2) National 9-P-100, 6-3/4" x 9-1/4" Triplex
1000 HP, Compound Driven

II. CONSIDERATIONS:

*The depth at which the system is converted from water to mud may vary. However, this program is to be used primarily as a guideline and daily hydraulics calculations should be performed by both office and field personnel to provide an optimum hydraulics program for maximum penetration rates.

ATTACHMENT C

GEOLOGICAL RECOMMENDATIONS FOR DRILLING WELLS
DEVELOPMENT _____ EXPLORATION X

OPERATOR: Sonat Exploration Co.

WELL NUMBER AND NAME: ^{DEAN} ~~Haueter~~ #1-7-C1

FIELD OR AREA NAME: Myton "B" Area; Altamont-Bluebell Field

LOCATION: ^{671'} ~~1520'~~ FWL & ^{500'} ~~1520'~~ FSL of Sec. 7,
T3S, R1W, Duchesne Co., Utah

TOTAL DEPTH/OBJECTIVE: 11,600' Wasatch

EST. TOP PRESSURE: Poss. pressure in transition zone starting at
approximately 9500'

EST. TOP OBJECTIVE ZONES: Possible pays from top of Green River at
+ 5200' to total depth T/Wasatch + 10,000'

POSSIBLE DRILLING PROBLEMS:

SAMPLE CUTTINGS: One set every 30' from surface to ^{3000'} ~~4500'~~; two sets
dry-washed samples every 10' from ~~4500'~~ ^{3000'} to total depth caught by
mudlogger.

ELECTRICAL LOG: Dual-Induction-SFL: surface casing to total depth

POROSITY LOG: (1) Compensated neutron-form. Density: Surface casing to TD
(2) Borehole compensated sonic: Intermediate casing to TD

FORMATION TESTS (WIRELIN): None

DRILL STEM TESTS: ~~None~~ Based on recommendations by well-site geologist ²⁻²⁻⁸³

SPECIAL SERVICES: Mudlogger: ^{3000'} ~~4500'~~ to total depth

APPROVED BY: 

*NOTE: Any drill stem
testing is subject to
approval by Operations
management.

mf per RHL
2-4-83

RECOMMENDATIONS BY: V. O. Carmichael *Vol*

DATE: Dec. 15, 1982

LOST CIRCULATION PROGRAM

Lost circulation is a common and sometimes severe problem in this area. The loss of large volumes of weighted mud increase mud costs and damage potentially productive formations. Naturally occurring open and closed fractures will present the majority of the lost circulation problems in this well. There are certain precautions that should be taken to minimize or prevent these losses:

1. Avoid excessive pipe speed while tripping in and out of the hole to minimize swab and surge pressures.
2. Attempt to keep plastic viscosities in the 20-30 cp range and yield points below 5 lbs/100 ft.
3. When losses occur that cannot be sealed by the fine walnut shell, a pill treatment consisting of 10 ppb fine plus 10-15 ppb medium walnut should be used. Allow the pill to set approximately one hour. When trying to regain circulation, reduce the pump rates and swab the hole. Repeat this pill treatment if partial returns are obtained.
4. If losses persist, a pill consisting of 10 ppb fine, 10-15 ppb medium and 10-15 ppb coarse walnut shell should be used and allowed to set for one hour.
5. If returns are still not obtained, a cement plug or a "high solids" plug treatment should be considered.

ATTACHMENT E

OPERATOR SONAT EXPLORATION CO

DATE 1-24-83

WELL NAME DEAN # 1-7C1

SEC SW SW 7 T 35 R 1W COUNTY DUCHESNE

43-013-30739

API NUMBER

FEE

TYPE OF LEASE

POSTING CHECK OFF:

☐

INDEX

☐

HL

☐☐

NID

☐

PI

☐☒

MAP

☐☐

PROCESSING COMMENTS:

No wells within 1000'

APPROVAL LETTER:

SPACING:

☐

A-3

UNIT

☐

c-3-a

CAUSE NO. & DATE

☒

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

and the following stipulations:

- 1 Annular BOP equipment, including drilling spool^{to be} and choke & kill lines
installed and pressure tested prior to drilling 12 1/4" surface hole.
- 2 Notify Division prior to pressure testing operations.
- 3 Submit^{to the Division} a Drilling Procedure plan including expected
formations and pressures prior to spudding.
- 4 Advise the Division of source of water to be used during
drilling operations.

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☐ VERIFY ADEQUATE AND PROPER BONDING *NEEDS BOND*

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER NO

☐ UNIT NO

☒ c-3-b

☐ c-3-c

☒ OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

February 3, 1983

Sonat Exploration Company
P. O. Box 1513
Houston, Texas 77251-1513

RE: Well No. Dean #1-7C1
SWSW Sec. 7, T.3S, R.1W
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3(b), General Rules and Regulations and Rules of Practice and Procedure and the following stipulations:

1. Annular BOP equipment, drilling spool and choke & kill lines to be installed and pressure tested prior to drilling 12 $\frac{1}{4}$ " surface hole.
2. Notify Division prior to pressure testing operations.
3. Submit to the Division drilling procedure plan including expected formations and pressures prior to spudding.
44. Advise the Division of source of water to be used during drilling operations.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer
Office: 533-5771
Home: 571-6068

OR

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.


Sonat Exploration Company

Page 2

February 3, 1983

The API number assigned to this well is 43-013-30739.

Sincerely,



Ronald J. Firth
Chief Petroleum Engineer

RJF/as
Enclosure

Jeannia Poole

Needs bond - asked
for Richard's return
Call on the matter

Yours
1-24-83

Brian Simmons
returned call and will
send bond

Yours
1-24-83

~~Acc'd~~ 2-3-83

Yours

Sonat Exploration Company
Post Office Box 15
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

February 10, 1983

Re: Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," along with a surveyed plat concerning the subject well. Included is a copy of our drilling procedure plan.

If you require additional information, please call me at 713/940-4014.

Sincerely,



D. E. Richards
Senior Drilling Engineer

BTS/jlp
Enclosures

RECEIVED
FEB 16 1983

DIVISION OF
OIL GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 1513; Houston, TX 77251-1513		7. UNIT AGREEMENT NAME Fee
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 671' FWL & 500' FSL of Sec. 7, T3S, R1W (Previously 500' FWL & 500' FSL) (Straight Hole)		8. FARM OR LEASE NAME Dean
14. PERMIT NO. 43-013-30739		9. WELL NO. #1-7C1
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5255' (G.L.)		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 7, T3S, R1W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	(csg. & location) <input type="checkbox"/>

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Sonat ^{EAST} requests approval to move the previously permitted location of the subject well 171' ^{EAST} as indicated by the description in item 4 above. The original location was partly situated in a drainage area which necessitated moving the location ^{EAST}. Attached is the certified plat. Additionally, Sonat would like to modify the casing program as follows:

CASING	SETTING DEPTH	QUANTITY OF CEMENT
20", 94#, H-40	80'	100 sx
10-3/4", 51.0#, N-80	3,000'	700 sx
7-5/8" N-80, 26.4#	0 - 6,500'	
7-5/8" N-80, 29.7#	6500 - 9,500'	735 sx
7-5/8" N-80, 33.7#	9500 - 11,600	

NOTE: Verbal approval for the above location change and casing program modification was received from Ron Firth on February 7, 1983.

APPROVED BY: [Signature]
OF: OIL, GAS, AND MINING
DATE: 2/10/83
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Senior Drilling Engineer DATE February 10, 1983

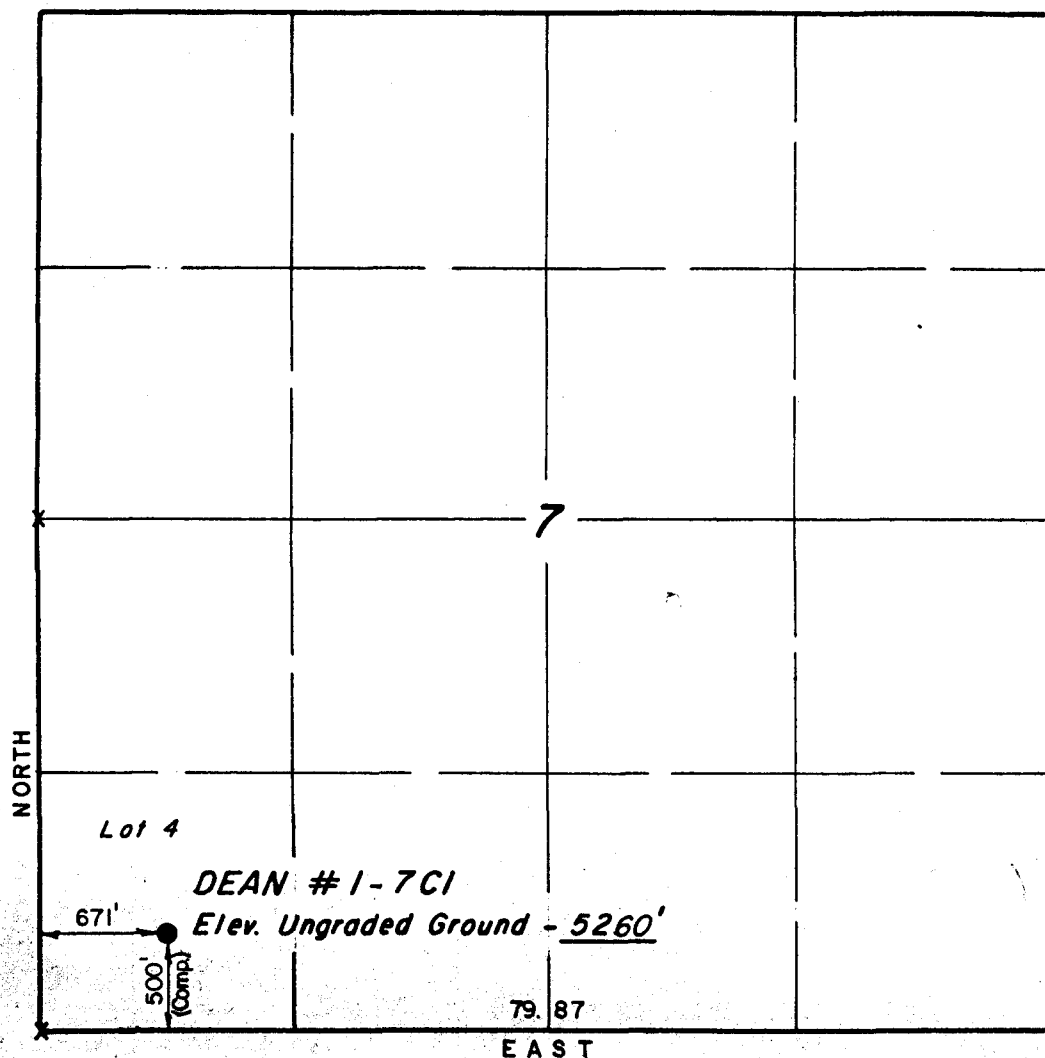
(This space for Federal or State office use)

APPROVED BY: _____ TITLE: _____ DATE: _____
CONDITIONS OF APPROVAL, IF ANY:

T3S, RIW, U.S.B. & M.

PROJECT
SONAT EXPLORATION

Well location, DEAN # 1-7C1,
located as shown in the SW1/4
SW1/4 Section 7, T3S, RIW,
U.S.B. & M. Duchesne County,
Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Gene Stewart
REGISTERED LAND SURVEYOR
REGISTRATION No 3154
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	1/26/83
PARTY	RT JW RP	REFERENCES	GLO Plat
WEATHER	Cold	FILE	SONAT

X = Section Corners Located

NOTE: Loc. to SW Cor. - $S53^{\circ}18'53''W$ - 836.68'

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: SONAT EXPLORATION C OMPANY

WELL NAME: Dean 1-7C1

SECTION SWSW 7 TOWNSHIP 3 S RANGE 1 W COUNTY Duchesne

DRILLING CONTRACTOR Rio Grande

RIG # 2

SPUDDED: DATE 2-16-83

TIME

How Rotary

DRILLING WILL COMMENCE

REPORTED BY

TELEPHONE #

DATE 2-17-83 SIGNED RJF

Sonat Exploration Company
Post Office Box 1513
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

February 22, 1983

Re: Well Status Report
Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources & Energy
4241 State Office Building
Salt Lake City, Utah 84114

Gentlemen:

1/28/83 thru 2/18/83
TD @ 1693'
MW @ 9.0 ppg

This exploratory well to test the Green River and Wasatch formations is located 671' FWL & 500' FSL of Section 7, T3S, R1W, Duchesne County, Utah. It will be drilled to a total depth of 11,600'. Casing (20") was set @ 80' BGL & cemented with Redimix. Spud 2/16/83. Drilling.

Mike Lammers

M. J. Lammers
Senior Drilling Engineer

RECEIVED
FEB 24 1983

DIVISION OF
OIL, GAS & MINING

Sonat Exploration Company
Post Office Box 1513
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

March 11, 1983

RE: Well Status Report
Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources & Energy
4241 State Office Building
Salt Lake City, Utah 84114

Gentlemen:

2/19/83 thru 3/11/83
TD @ 8080'
MW @ 9.2 ppg

Drilling. Cemented 10-3/4" csg. @ 2920' with 670 sx. NU & tested
BOP's. Drilling. WIH with tools for DST #1. Set pkr. @ 5625'.
Recovered 290' of drilling mud, slightly gas cut with a trace
of oil. ISIP=739 psi, FSIP=2632. Drilling.

Mike Lammers

M. J. Lammers
Senior Drilling Engineer

RECEIVED
MAR 14 1983

DIVISION OF
OIL GAS & MINING

Sonat Exploration Company
Post Office Box 15
Houston TX 77251 1513
713 940 4000

SONATEXPLORATION

March 31, 1983

Re: Well Status Report
Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources and Energy
Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, Utah 84114

Gentlemen:

3/11/83 thru 3/31/83
TD @ 11,600' MD
MW @ 10.8 ppg

Drilling. WIH for DST #2. Set pkr. @ 8490'. DST Interval
8490-8513'. Tested 6 hours. Gas to surface in 36 minutes.
Released pkr. POH. Ran GR/LSS/Caliper, DIL/NGS, EPT/LDT/CNL/GR
and Dipmeter. Finished running VSP. RD Schl. GIH w/bit.
CCM.



M. J. Lammers
Senior Drilling Engineer

JAW/jlp

RECEIVED

APR 06 1983

DIVISION OF
OIL, GAS & MINING

Sonat Exploration Company
Post Office Box 1513
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

April 5, 1983

Re: Well Status Report
Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources and Energy
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Gentlemen:

4/1/83 thru 4/3/83
TD @ 11,600'
MW @ 11.0 ppg

Ran 7-5/8" csg and set at 11,590'. Cemented with 450 sx
C1 "H" + additives followed with 475 sx 50/50 Pozmix +
additives. ND BOPs. NU dry hole tree. Released rig on
4/1/83. FINAL REPORT: Well T/A. Note: Will resume
operations reports when completion rig moves in.

Mike Lammers

M. J. Lammers
Senior Drilling Engineer

RECEIVED
APR 07 1983

DIVISION OF
OIL, GAS & MINING

Sonat Exploration Company
Post Office Box 15
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

April 14, 1983

Re: Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, Utah 84114

Gentlemen:

Enclosed, in triplicate, is Form OGC-8-X, "Report of
Water Encountered During Drilling," concerning the
subject well.

If you require additional information, please call me
at 713/940-4026.

Sincerely,

Mike Lammers

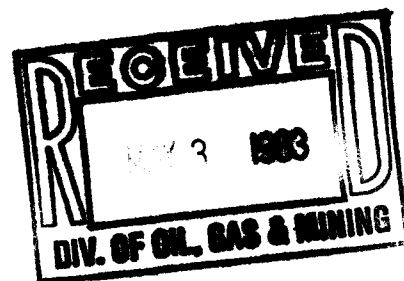
M. J. Lammers
Senior Drilling Engineer

BTS/jlp
Enclosures

RECEIVED
APR 21 1983

DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116



REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Dean #1-7C1
Operator Sonat Exploration Company Address P.O. Box 1513; Houston, TX 77251-1513
Contractor Rio Grande Rig #2 Address Tower Lift Bldg; San Antonio, TX 78205
Location SE ¼ SE ¼ Sec. 7 T. 3S R. 1W County Duchesne

Water Sands

	<u>Depth</u>	<u>Volume</u>	<u>Quality</u>
	From To	Flow Rate or Head	Fresh or Salty
1.	<u>—</u>		
2.	<u>—</u>		
3.			
4.			
5.			

(Continue of reverse side if necessary)

Formation Tops NOTE: No water flows were encountered.

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

Sonat Exploration Company
Post Office Box 15
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

April 29, 1983

Re: Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

Mr. Norm Stout
State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," along with a present schematic concerning the subject well.

If you require additional information, please call me at 713/940-4026.

Sincerely,

Mike Lammers

M. J. Lammers
Senior Drilling Engineer

BTS/jlp
Enclosures

RECEIVED

MAY 04 1983

DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P O Box 1513, Houston, Texas 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 500'FWL & 500'FSL of Section 7, T3S, R1W		8. FARM OR LEASE NAME Dean
14. PERMIT NO. 43-013-30739		9. WELL NO. #1-7C1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5255' (Ungraded G.L.)		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 7, T3S, R1W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	Status of Operations <input checked="" type="checkbox"/>
(Other) Status of Operations <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See Attached

RECEIVED
MAY 04 1983DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED Mike Lammers TITLE Senior Drilling Engineer DATE April 29, 1983

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Operations Suspended on 4/1/83

- 1) Set 7-5/8" csg. at 11,590'. Cemented with 925 sx + additives.
- 2) ND BOPs and NU dry hole tree.
- 3) Released rig 4/1/83.

Resumed Operations to complete on 4/23/83:

The well will be completed as a single in the Wasatch Formation. The completion will allow for additional thru tubing perfs to be added. MI Prairie Gold Well Service Rig. ND dry hole tree. NU BOPs. WIH with 4" csg gun. Perforated 11,294-312' DIL with 3 jspf. WIH with Otis 7-5/8" "WB" pkr with push out plug below. Set same at 11,000'. WIH with 2-7/8" ABC mod. tbg. and seal assembly. Perforated 11,280-282'; 11,261-275'; 11,244-248'; 11,204-209'; 11,198-202'; 11,190-195'; 11,151-183'; 11,143-147'; 11,096-100'; 11,065-072' and 11,055-061' (all DIL) with 2 jspf.

NOTE: The well has not been tested. Waiting for production equipment installation scheduled for completion on 5/1/83. We will forward the Completion Report after the completion of the subject well per Mr. Norm Stout on 5/28/83.

Sonat Exploration Company

Present Completion

Dean #1-7C1

Section 7, T3S, R1W

Duchesne County, Utah

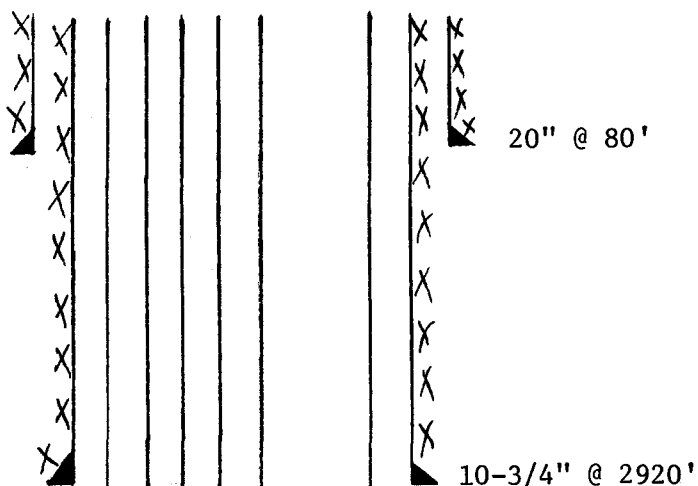
BTS/JAW

04/83

Fluid left in wellbore:
9.0#/gal KCL water

2-7/8", 6.4#, N-80, ABC Mod.
Production Tbg. @ 11,000±

Perforations @ 11,294-312'DIL;
11,280-282'DIL; 11,261-275'DIL;
11,244-248'DIL; 11,204-209'DIL;
11,198-202'DIL; 11,190-195'DIL;
11,151-183'DIL; 11,143-147'DIL;
11,096-100'DIL; 11,065-072'DIL;
11,055-061'DIL



2-3/8", 4.7#, N-80, A-95 heat string
@ 4976'

Est. top of cement @ 5000'±

Otis "WB" packer @ 11,000' with
a 2-7/8" 6.5# J-slot locator above.
Below the packer is a X-over, 6'-
2-7/8" pup joint, 2-7/8" "X" nipple,
another 6'-2-7/8" pup joint.

Min.I.D.: 2-7/8" "X" nipple=3.313"
PBTB @ 11,500'
7-5/8" @ 11,590'

Sonat Exploration Company
Post Office Box 1
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

May 2, 1983

Re: Well Status Report
Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources and Energy
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Gentlemen:

4/23/83 through 4/29/83

FIRST REPORT: This well will be completed as a single in the Wasatch Formation. The completion will allow for additional thru tbg perfs to be added. MI Prairie Gold Well Service Rig. ND dry hole tree. NU BOPs. WIH with 4" csg gun. Perf 11,294-312' DIL with 3 jspf. WIH with Otis 7-5/8" "WB" pkr with push out plug and set at 11,000'. WIH with 2-7/8" ABC mod tbg and seal assembly. Installed BPV. Ran 2-3/8" heat string to 4,976'. ND BOPs. NU and tested tree to 5M psi. Perforated @ 11,294-312'; 11,280-282'; 11,261-275'; 11,244-248'; 11,204-209'; 11,198-202'; 11,190-195'; 11,151-183'; 11,143-147'; 11,096-100'; 11,065-072'; 11,055-061' (all DIL). RD and MO rig.

NOTE: The well has not been tested. Waiting on production equipment installation scheduled for completion 5/1/83.

Sincerely,

Mike Lammers

M. J. Lammers
Sr. Drilling Engineer

JAW/cab

RECEIVED
MAY 05 1983

**DIVISION OF
OIL, GAS & MINING**

Sonat Exploration Company
Post Office Box 15
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

May 4, 1983

Re: Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, Utah 84114

Gentlemen:

Enclosed, in triplicate, is Form OGC-1a, "Application for Permit to Plug Back," along with its attachments concerning the subject well.

If you require additional information, please call me at 713/940-4026.

Sincerely,



M. J. Lammers
Senior Drilling Engineer

BTS/jlp
Enclosures

RECEIVED
MAY 09 1983

DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
 (Other instructions on
 reverse side)

5. Lease Designation and Serial No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL ☐DEEPEN ☐PLUG BACK ☒

b. Type of Well

Oil Well ☐Gas Well ☐Other ☐Single Zone ☐Multiple Zone ☐

2. Name of Operator

Sonat Exploration Company

3. Address of Operator

P. O. Box 1513; Houston, TX 77251-1513

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface

500' FWL & 500' FSL of Section 7, T3S, R1W

At proposed prod. zone

Straight Hole

14. Distance in miles and direction from nearest town or post office*

2.75 miles N-NW of Myton, Utah

15. Distance from proposed*

location to nearest property or lease line, ft. (Also to nearest drilg. line, if any)

500

16. No. of acres in lease

78.35

17. No. of acres assigned to this well

640

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

N/A

TD @ 11,590'

PBSD @ 11,500'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)

5255 (Ungrade G.L.)

22. Approx. date work will start*

May 4, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
Set by rathole	20"		80'	Redimix
12-1/4"	10-3/4"	51#	2,920'	820 sx
9-1/2"	7-5/8"	33.7#, 29.7# & 26.4#	11,590'	925 sx

PROPOSED OPERATIONS

1. Set CIBP @ 10,500' with 5 sx of cement on top.
2. Recomplete at the attached list of perforations.

NOTE: Verbal approval was received from Mr. Ron Firth on 5/3/83.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Signed.....

Mike Lammert

Title..... Senior Drilling Engineer

Date..... May 4, 1983

(This space for Federal or State office use)

Permit No.....

Approval Date.....

Approved by.....

Title.....

Conditions of approval, if any:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: *5/12/83*BY: *[Signature]*

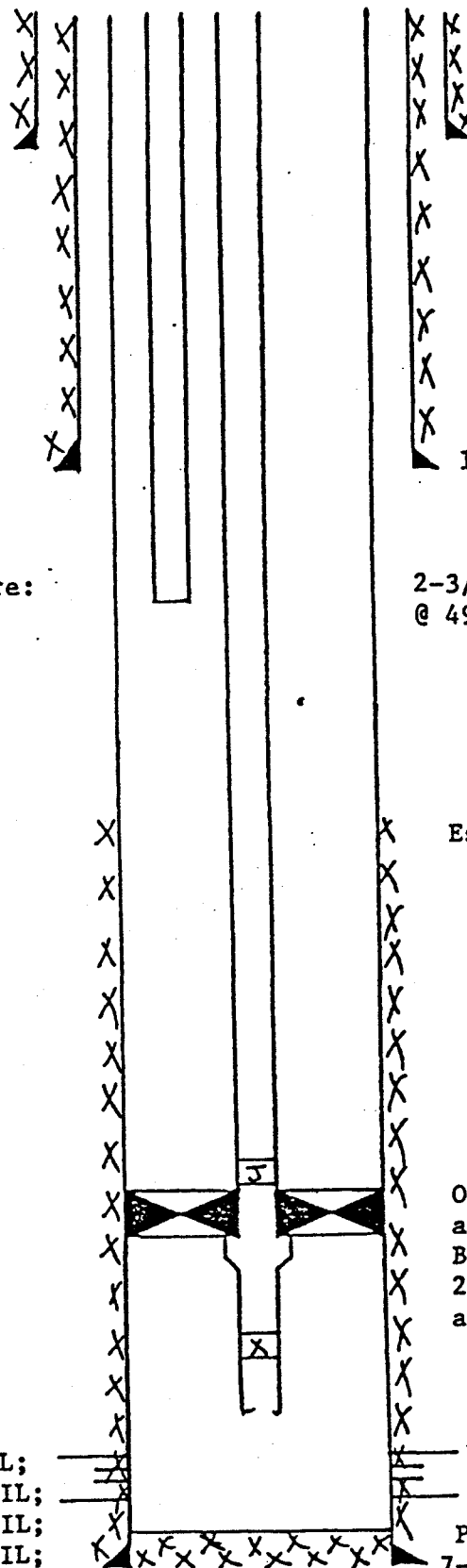
*See Instructions On Reverse Side

DEAN #1-7C1

<u>Interval</u>	<u>Footage</u>	<u>JSPF</u>	<u>Shots</u>
8356-8358	2	1	2
8366-8368	2	1	2
8384-8388	4	1	4
8399-8402	3	1	3
8446-8448	2	1	2
8454-8456	2	1	2
8502-8506	4	3	12
8508-8516	8	3	24
8554-8556	2	1	2
8570-8572	2	1	2
8576-8578	2	1	2
8580-8582	2	1	2
8586-8592	6	1	6
8637-8639	2	1	2
8644-8646	2	1	2
8648-8650	2	1	2
8664-8666	2	1	2
8680-8682	2	1	2
8704-8706	2	1	2
8715-8717	2	1	2
8734-8738	4	1	4
8750-8758	8	1	8
8780-8788	8	1	8
8814-8820	6	1	6
8826-8830	4	1	4
8846-8848	2	1	2
8856-8860	4	1	4
8875-8877	2	1	2
8881-8883	2	1	2
8911-8914	3	1	3
8920-8924	4	1	4
8936-8938	2	1	2
8946-8950	4	1	4

<u>Interval</u>	<u>Footage</u>	<u>JSPF</u>	<u>Shots</u>
8956-8958	2	1	2
9019-9023	4	1	4
9043-9046	3	1	3
9084-9088	4	1	4
9120-9124	4	1	4
9135-9139	4	1	4
9152-9154	2	1	2
9174-9176	2	1	2
9200-9202	2	1	2
9227-9231	4	1	4
9252-9254	2	1	2
9256-9259	3	1	3
9311-9316	5	3	15
9323-9336	13	3	39
9340-9342	2	3	6
9386-9394	8	3	24
9416-9422	6	3	18
9432-9437	5	3	15
9440-9442	2	3	6
9452-9456	4	3	12
9466-9470	4	3	12
9474-9480	6	3	18
9489-9487	3	3	9
9490-9496	6	3	18
9502-9508	6	3	18
9534-9537	3	3	9
9554-9558	4	1	4
9576-9584	8	1	8
9601-9604	<u>3</u>	1	<u>3</u>
	232'		402

onate Exploration Company
 Present Completion
 Lean #1-7C1
 Section 7, T3S, R1W
 Duchesne County, Utah
 TS/JAW 04/83



20" @ 80'

10-3/4" @ 2920'

Fluid left in wellbore:
 9.0#/gal KCL water

2-3/8", 4.7#, N-80, A-95 heat string
 @ 4976'

Est. top of cement @ 5000'±

2-7/8", 6.4#, N-80, ABC Mod.
 Production Tbg. @ 11,000±

Otis "WB" packer @ 11,000' with
 a 2-7/8" 6.5# J-slot locator above.
 Below the packer is a X-over, 6'-
 2-7/8" pup joint, 2-7/8" "X" nipple,
 another 6'-2-7/8" pup joint.

Perforations @ 11,294-312'DIL;
 11,280-282'DIL; 11,261-275'DIL;
 11,244-248'DIL; 11,204-209'DIL;
 11,198-202'DIL; 11,190-195'DIL;
 11,151-183'DIL; 11,143-147'DIL;
 11,096-100'DIL; 11,065-072'DIL;
 11,055-061'DIL

Min. I.D.: 2-7/8" "X" nipple = 3.313"
 PBTB @ 11,500'
 7-5/8" @ 11,590'

SONAT EXPLORATION COMPANY

Proposed Schematic

Dean #1-7C1

Section 7, T3S, R1W

Duchesne County, Utah

BTS/JAW

05/83

Fluid left in wellbore:

9.0#/gal KCl water

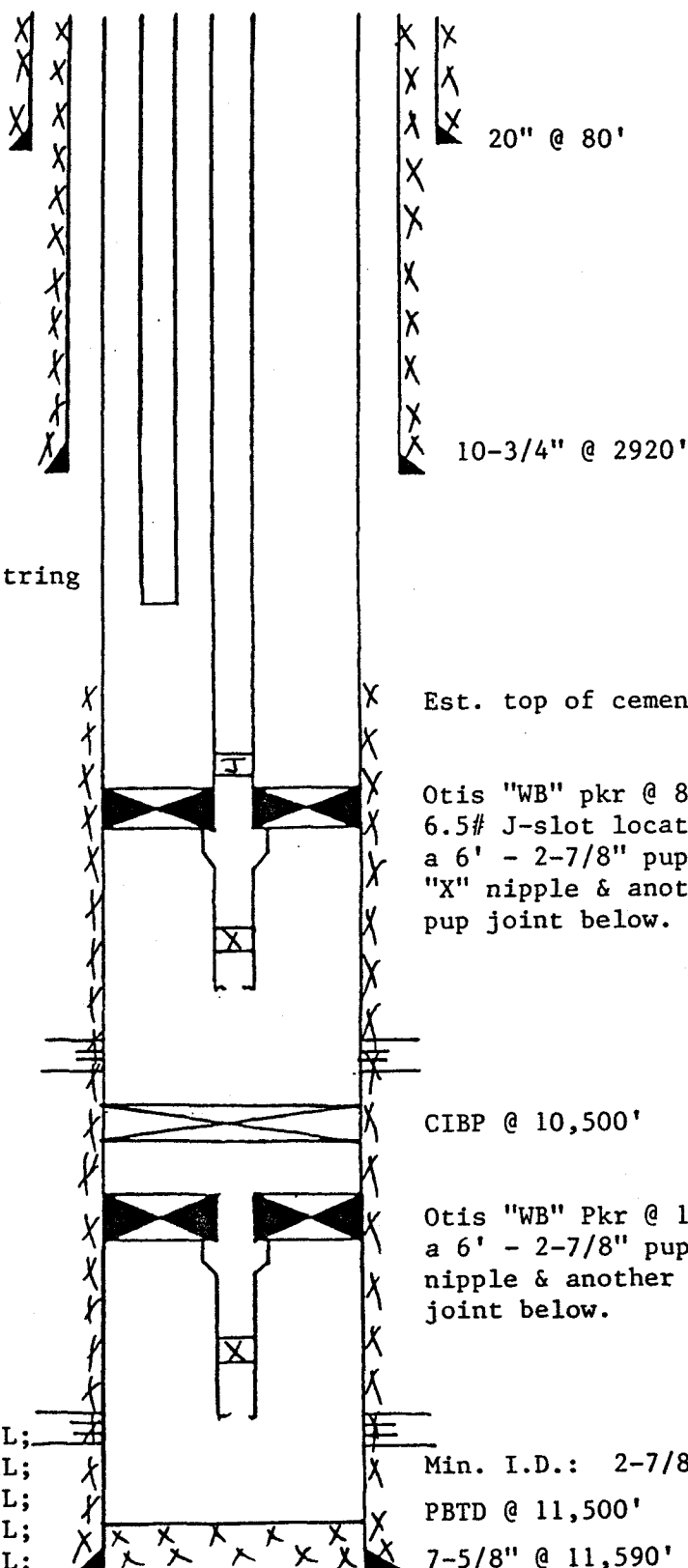
2-3/8", 4.7#, N-80, A-95 heat string
@ 4976'

Proposed Perfs:

According to attached list

2-7/8", 6.4#, N-80, ABC Mod.
Production Tbg. @ 11,000'±

Perforations @ 11,294-312' DIL;
11,280-282' DIL; 11,261-275' DIL;
11,244-248' DIL; 11,204-209' DIL;
11,198-202' DIL; 11,190-195' DIL;
11,151-183' DIL; 11,143-147' DIL;
11,096-100' DIL; 11,065-072' DIL;
11,055-061' DIL



Est. top of cement @ 5000'±

Otis "WB" pkr @ 8250' w/a 2-7/8"
6.5# J-slot locator above. X-over
a 6' - 2-7/8" pup joint, 2-7/8"
"X" nipple & another 6' - 2-7/8"
pup joint below.

CIBP @ 10,500'

Otis "WB" Pkr @ 11,000' w/a X-over,
a 6' - 2-7/8" pup joint, 2-7/8" "X"
nipple & another 6' - 2-7/8" pup
joint below.

Min. I.D.: 2-7/8" "X" Nipple = 3.313"

PBTD @ 11,500'

7-5/8" @ 11,590'

SONAT EXPLORATION

May 13, 1983

Re: Well Status Report
Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources and Energy
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

Gentlemen:

4/30/83 thru 5/4/83

Swabbed well to 10,900' w/no fluid rise and no pressure. SI well on 5/2/83. Bled off in 5 min. and wouldn't burn. On 5/4/83 - 650 psig SITP. Bled to 0 in 20 min.

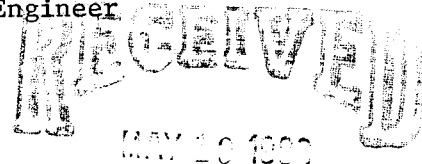
5/5/83 thru 5/13/83

FIRST REPORT: This workover will isolate the lower Wasatch and recomplete in the upper Wasatch sand. Bled tbg. from 650 psi to 0. Displaced heat string w/9.0 ppg KCl. ND tree. NU BOPs. POH w/2-7/8" tbg. Set bridge plug @ 10,508'. Dumped 5 sx cement on plug with bailer. Tested bridge plug to 2850 psi. Perforated over intervals from 8356-9636'. Ran 2-7/8" tbg. WIH with 2-3/8" heat string. ND BOPs and NU tree. Pumped out plug in pkr @ 8250' DIL. Opened well to pit - unloaded water. Released rig. The well flowed after several hours with small volume gas for 2 hrs. SI overnight. Swabbed well. Flowed 2 hrs. w/very small flare not fluid. Acidized the well in 3 stages with total 15,000 gal 15% HCl + additives. The well unloaded acid water, trace oil at est. 200 MCFD for 8 hrs. Turned to production facilities overnight. Well continued unloading acid water, some oil in string heads. Testing well.

Mike Lammers

M. J. Lammers
Senior Drilling Engineer

JAW/jlp



DIVISION OF
OIL, GAS & MINING

SUBMIT IN DUPLICATE*

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other ☐b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐

2. NAME OF OPERATOR

Sonat Exploration Company

3. ADDRESS OF OPERATOR

P. O. Box 1513; Houston, TX 77251-1513

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface 671' FWL & 500' FSL of Section 7, T3S, R1W

At top prod. interval reported below

At total depth Straight Hole

Dean

9. WELL NO.

#1-7C1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 7, T3S, R1W

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

15. DATE SPUDDED

2/16/83

16. DATE T.D. REACHED

3/27/83

17. DATE COMPL. (Ready to prod.)

5/7/83

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5255 (Ungrade G.L.)

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

11,600'

21. PLUG, BACK T.D., MD & TVD

BP @ 10,508'

22. IF MULTIPLE COMPL., HOW MANY*

Single

23. INTERVALS DRILLED BY

ROTARY TOOLS

All

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Perforations @ 8356' - 9636'

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Directional Log, Continuous Dipmeter, LDT/CNL, DII, RFT, BHC Sonic, EPT, NGS

27. WAS WELL CORRED

No

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"		80' BGL		Redimix	
10-3/4"	51#	2920'	12-1/4"	820 sx	
7-5/8"	33.7, 29.7 & 26.4	11,590'	9-1/2"	925 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8"	8248'	8250'
				(heat string)	2-3/8"	4976'	

31. PERFORATION RECORD (Interval, size and number)

See Attached list

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8356-9636'	Acidized in 3 stages w/total 15,000 gal 15% HCl + additives

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
5/11/83		Flowing					Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO	
5/12/83	6	20/64	PERIOD →	96.34	60	3.7	623/1	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)		
325	0	→	385.36	240	14.8	42.1° API		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Flared

TEST WITNESSED BY

Johnny Markerson

35. LIST OF ATTACHMENTS

Two copies of the Present Schematic & logs

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Mike Lammie

TITLE

Senior Drilling Engineer

DATE

May 24, 1983

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), annotations and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22 and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUMULON USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Wasatch	8350'	9610'	Fractured SD, SH, & LS with some Matrix Por.
DST #1	5630'	5670'	TO: 90 Min. FP: 739-1003 SIP: 2622-2632 REC: 290 FT. DM, SL GC & TR. Oil
DST #2	8490'	8513'	TO: 1 HR. 30 Min. FP: 216-256 SIP: 1483-? REC: 469 FT. SL MC Oil & 92 FT. WTR. Cut Mud

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Green River	5067'	
TGR 3	6800'	
Carbonate Mkr	8355'	
Wasatch	8424'	

DEAN #1-7C1

<u>Interval</u>	<u>Footage</u>	<u>JSPF</u>	<u>Shots</u>
8356-8358	2	1	2
8366-8368	2	1	2
8384-8388	4	1	4
8399-8402	3	1	3
8446-8448	2	1	2
8454-8456	2	1	2
8488-8490	2	1	2
8502-8506	4	3	12
8508-8516	8	3	24
8554-8556	2	1	2
8570-8572	2	1	2
8576-8578	2	1	2
8580-8582	2	1	2
8586-8592	6	1	6
8637-8639	2	1	2
8644-8646	2	1	2
8648-8650	2	1	2
8664-8666	2	1	2
8680-8682	2	1	2
8704-8706	2	1	2
8715-8717	2	1	2
8734-8738	4	1	4
8750-8758	8	1	8
8780-8788	8	1	8
8814-8820	6	1	6
8826-8830	4	1	4
8846-8848	2	1	2
8856-8860	4	1	4
8875-8877	2	1	2
8881-8883	2	1	2
8911-8914	3	1	3
8920-8924	4	1	4
8936-8938	2	1	2
8946-8950	4	1	4

<u>Interval</u>	<u>Footage</u>	<u>JSPF</u>	<u>Shots</u>
8956-8958	2	1	2
8974-8976	2	1	2
8979-8981	2	1	2
9019-9023	4	1	4
9043-9046	3	1	3
9049-9051	2	1	2
9055-9057	2	1	2
9084-9088	4	1	4
9120-9124	4	1	4
9135-9139	4	1	4
9152-9154	2	1	2
9174-9176	2	1	2
9200-9202	2	1	2
9227-9231	4	1	4
9252-9254	2	1	2
9256-9259	3	1	3
9311-9316	5	3	15
9323-9336	13	3	39
9340-9342	2	3	6
9386-9394	8	3	24
9416-9422	6	3	18
9432-9437	5	3	15
9440-9442	2	3	6
9452-9456	4	3	12
9466-9470	4	3	12
9474-9480	6	3	18
9484-9487	3	3	9
9490-9496	6	3	18
9502-9508	6	3	18
9534-9537	3	3	9
9554-9558	4	1	4
9576-9584	8	1	8
9601-9604	3	1	3
9634-9636	<u>2</u>	1	<u>2</u>
	244'		414

The perforations from 11,294' DIL through 11,061' did not produce after acidizing. The well was acidized with a total 13,000 gal 15% HCl with pre & postpad of total 4200 gal KCl water. Both acid and KCl were formed with N₂. The following perforations have been plugged and abandoned:

<u>Interval</u>	<u>Footage</u>	<u>JSPF</u>
11,294-312' DIL	18	3
11,280-282' DIL	2	2
11,261-275' DIL	14	2
11,244-248' DIL	4	2
11,204-209' DIL	5	2
11,198-202' DIL	4	2
11,190-195' DIL	5	2
11,151-183' DIL	32	2
11,143-147' DIL	4	2
11,096-100' DIL	4	2
11,065-072' DIL	7	2
11,055-061' DIL	6	2

SONAT EXPLORATION COMPANY

Present Schematic

Dean #1-7C1

Section 7, T3S, R1W

Duchesne County, Utah

BTS/JAW

05/83

2-3/8", 4.7#, N-80, A-95 heat
string @ 4976'

Tubing: 2-7/8", 6.5#, N-80, 8rd, EUE,
ABC Mod.

Perforations @

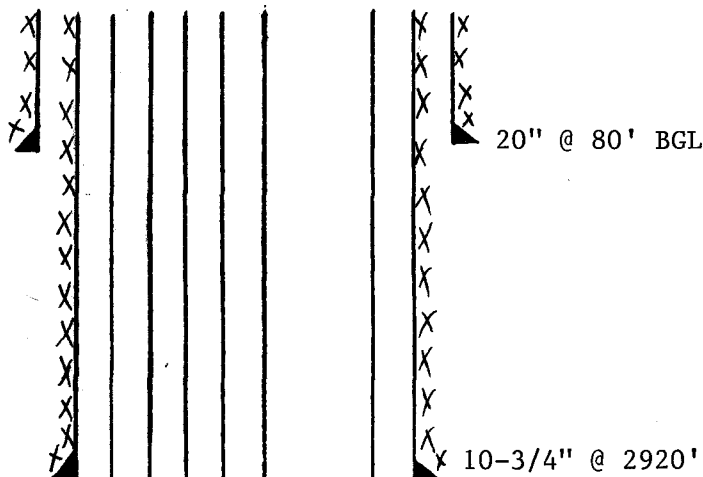
According to attached list

2-7/8", 6.5#, N-80, ABC Mod.
Production Tbg. @ 11,000'±

Perforations @

According to attached list

PBTD @ 11,500'
7-5/8" @ 11,590'



Est. top of cement @ 5000'±

Otis "WB" pkr. @ 8250' DIL w/a
2-7/8", 6.5# J-slot locator above.
Below pkr. is X-over, 6' pup -
2-7/8", "X" nipple, 6' pup - 2-7/8"
w/shear out plug - reentry guide.

CIBP @ 10,508' DIL. Dumped
5 sx cmt. on plug w/bailer

Otis "WB" Pkr @ 11,000'. Below
pkr. is X-over, 6' pup - 2-7/8",
"X" nipple, 6' pup - 2-7/8" w/shear
out plug, re-entry guide.

Min. I.D.: 2-7/8" "X" Nipple = 3.313"

PBTD @ 11,600'

Sonat Exploration Company

TUBULAR GOODS RUNNING RECORD

DISTRIBUTION
OF TUBULAR GOODS DEPT. HOUS. TEX

WELL: Dan #1 7C1

DATE: 5/8/83

STRING NUMBER: Long & Short RKB TO HANGER: 19'

CONTRACTOR: Prime L&L

Drilling Rig was 21' - Int Spool Rig 8

LIST MATERIAL BELOW IN ORDER RUN IN THE HOLE:

PIECES	MATERIAL DESCRIPTION - COMPLETE	OD	ID	LENGTH	DEPTH SET
<u>Packer Assy.</u>					
1	Otis WB Packer	6.38	3.25	2.57	8250.00
1	Packer to tubing adapter	6.38	2.40	.53	
1	Pup 2 3/8	2.875	2.44	5.56	
1	Otis "X" Nipple	3.25	2.33	1.24	8258.66
1	Pup 2 3/8	2.875	2.44	6.00	
1	Pumpout Plug w/ Running Guide Bkt. in			1.58	8267.48
 <u>LONG STRING</u>					
1	Mule shoe Guide	3.19	2.33	.40	
1	Otis Seal unit	3.19	2.33	1.50	
1	"J" Latch	3.94	2.33	1.13	
264	JTS 2 3/8 60.5# N-80 Std EUE ABM	2.575	2.441	8226.18	
1	Common Split hanger 2 3/8 CS Top			.90	
1	Elevation			0.00	
	<u>Total Length LIS by Rig Tape</u>			<u>8248.61'</u>	
 <u>SHORT STRING</u>					
151	JTS 2 3/8 " 4.74# N-80 A-95	2.315	1.900	4976.51	
1	Double pin sub		"	.180	
1	JT 2 3/8 " 4.74# N-80 A-95		"	32.62	
	<u>Total 2 3/8" Hung from Hanger</u>			<u>4976.93'</u>	

MAKE & TYPE THREAD LUBRICANT USED: API High Pressure Mod

MAKE-UP TORQUE USED: 2400 on 2 3/8 1500 on 2 1/2

AMOUNT OF PRESSURE TEST ON PIPE WHILE RUNNING:

WEIGHT SET ON PACKER OR PACKERS: 10.552#

TYPE & WEIGHT OF PACKER FLUID IN ANNULUS: 9# KCL Bore heat string

REMARKS: Push water line on heat string

44,000 Long String

20,000 Short String

2 3/8 CS to P11 LIS

2 3/8 A-95 to P11 SIS

PREPARED BY:

J. J. Davis

Sonat Exploration Company
Post Office Box 18
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

June 1, 1983

Re: Well Status Report
Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources and Energy
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

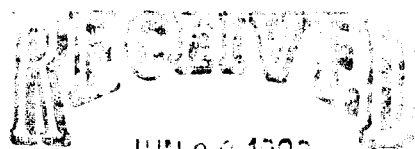
Gentlemen:

5/14/83

Tested the well. Results from
test: 6 hrs test-96.34 Oil-BBL,
60 Gas-MCF, 3.7 Water, 623/1 Gas-
Oil Ratio Twenty-four (24) hr
test-385.36 Oil-BBL, 240 Gas-MCF,
14.8 Water-BBL, 42.1° API Oil
Gravity-API, Date of test 5/12/83.
Status of Well-Producing
FINAL REPORT

Mike Lammers

M. J. Lammers
Senior Drilling Engineer



DIVISION OF
OIL, GAS & MINING

3

Sonat Exploration Company
Post Office Box 151
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

July 29, 1983

Re: Dean #1-7C1
Section 7, T3S, R1W
Duchesne Co., Utah

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, Utah 84114

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," along with its attachments concerning the subject well.

If additional information is necessary, please call me at 713/940-4026.

Sincerely,



M. J. Lammers
Senior Drilling Engineer

MJL/JAW
Enclosures

RECEIVED

AUG 01 1983

DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(For instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P O Box 1513, Houston, TX 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 671'FWL & 500'FSL of Section 7, T3S, R1W		8. FARM OR LEASE NAME Dean
14. PERMIT NO. 43-013-30739		9. WELL NO. #1-7C1
15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5255' (Ungrade G.L.)		10. FIELD AND POOL, OR WILDCAT Wildcat
12. COUNTY OR PARISH Duchesne		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Sonat request approval to add perforations to the subject well. See attached list.

Note: Received verbal approval from Mr. Norm Stout on 7/29/83.

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: 8/8/83
BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED <u>Mike Lammer</u>	TITLE <u>Senior Drilling Engineer</u>	DATE <u>July 29, 1983</u>
---------------------------	---------------------------------------	---------------------------

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Dean #1-7C1
Propose Perforations

9595 - 9599'	4
9616 - 9618'	2
9656 - 9660	4
9664 - 9667'	3
9706 - 9710'	4
9746 - 9750'	4
9776 - 9780'	4
9810 - 9814'	4
9848 - 9852	4
9870 - 9872'	2
9954 - 9958'	4
9976 - 9982'	6
10,094 - 10,102'	8
10,148 - 10,154'	6
10,168 - 10,172	4
10,200 - 10,209'	9
10,270 - 10,280	10
10,342 - 10,348'	6
10,406 - 10,410'	4
10,413 - 10,416'	3
10,438 - 10,442'	4
10,444 - 10,448'	4
10,460 - 10,472'	12
10,482 - 10,498'	16

131'

Present Schematic

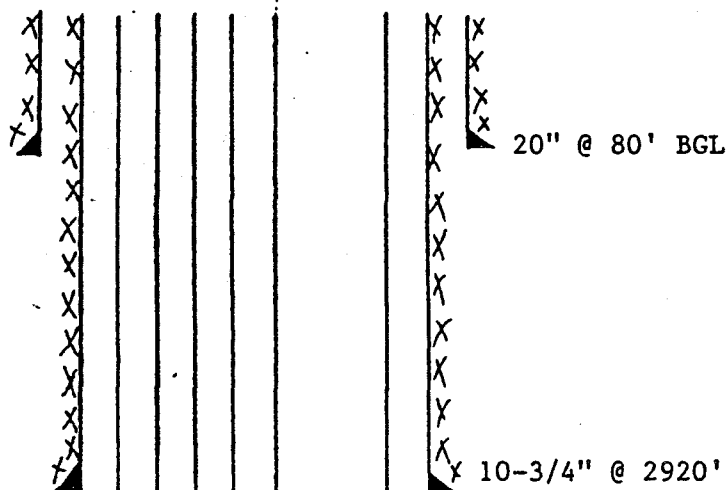
Dean #1-7C1

Section 7, T3S, R1W

Duchesne County, Utah

BTS/JAW

07/83



2-3/8", 4.7#, N-80, A-95 heat
string @ 4976'

Est. top of cement @ 5000'±

Otis "WB" pkr. @ 8250' DIL w/a
2-7/8", 6.5# J-slot locator above.
Below pkr. is X-over, 6' pup -
2-7/8", "X" nipple, 6' pup - 2-7/8"
w/shear out plug - reentry guide.

Tubing: 2-7/8", 6.5#, N-80, 8rd, EUE,
ABC Mod. @ 8248'

Perforations

Existing Perfs: 8356'-9636' (Gross)
Proposed Perfs: See Attached List

CIBP @ 10,508' DIL. Dumped
5 sx cmt. on plug w/bailer

2-7/8", 6.5#, N-80, ABC Mod.
Production Tbg. @ 11,000'±

Otis "WB" Pkr @ 11,000'. Below
pkr. is X-over, 6' pup - 2-7/8",
"X" nipple, 6' pup - 2-7/8" w/shear
out plug, re-entry guide.

Perforations @

According to attached list

Min. I.D.: 2-7/8" "X" Nipple = 3.313"

7-5/8" @ 11,590'

TD @ 11,600'

Sonat Exploration Company
Post Office Box 1
Houston TX 77251 1513
713 940 4000

SONAT EXPLORATION

August 23, 1983

Re: Dean #1-7C1
Section 7, T3S, R1W
Duchesne Co., Utah

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, Utah 84114

Gentlemen:

Enclosed, in triplicate, is Form OGC-1b, "Sundry Notices and Reports on Wells," along with its attachments concerning the subject well.

If additional information is necessary, please call me at 713/940-4026.

Sincerely,



M. J. Lammers
Senior Drilling Engineer

BTS/JAW
Enclosure

RECEIVED
AUG 30 1983

DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR Sonat Exploration Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P O Box 1513, Houston, TX 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 671'FWL & 500'FSL of Section 7, T3S, R1W		8. FARM OR LEASE NAME Dean
14. PERMIT NO. 43-013-30739		9. WELL NO. 1-7C1
15. ELEVATIONS (Show whether OF, RT, GR, etc.) 5255' (Ungrade G.L.)		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Section 7, T3S, R1W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐

PULL OR ALTER CASING

☐

FRACTURE TREAT

☐

MULTIPLE COMPLETE

☐

SHOOT OR ACIDIZE

☐

ABANDON*

☐

REPAIR WELL

☐

CHANGE PLANS

☐

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐

REPAIRING WELL

☐

FRACTURE TREATMENT

☐

ALTERING CASING

☐

SHOOTING OR ACIDIZING

☒

ABANDONMENT*

☐

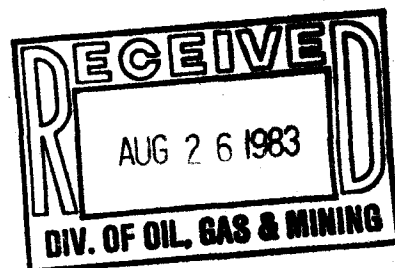
(Other)

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Sonat added perforations to the subject well. See the attached list.

APPROVED BY THE STATE
OF UTAH
DIVISION OF
OIL, GAS, AND MINING
DATE: 9/9/83
BY: [Signature]



18. I hereby certify that the foregoing is true and correct

SIGNED

Mike Sammers

TITLE

Senior Drilling Engineer

DATE

August 23, 1983

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Dean #1-7C1
Additional Perforations

	<u>FOOTAGE</u>
9595 - 9599' DIL	4
9616 - 9618' DIL	2
9656 - 9660' DIL	4
9664 - 9667' DIL	3
9706 - 9710' DIL	4
9746 - 9750' DIL	4
9776 - 9780' DIL	4
9810 - 9814' DIL	4
9848 - 9852' DIL	4
9870 - 9872' DIL	2
9954 - 9958' DIL	4
9976 - 9982' DIL	6
10,094 - 10,102' DIL	8
10,148 - 10,154' DIL	6
10,168 - 10,172' DIL	4
10,200 - 10,209' DIL	9
10,270 - 10,280' DIL	10
10,342 - 10,348' DIL	6
10,406 - 10,410' DIL	4
10,413 - 10,416' DIL	3
TOTAL	<u>95'</u>

Used 2-1/8" Hollow Carrier, 2 JSPF with 6.5 g. JRC charge.

We were unable to perforate the following intervals:

10,438 - 10,442'
10,444 - 10,448'
10,460 - 10,472'
10,482 - 10,498'

SONAT EXPLORATION COMPANY

Present Completion

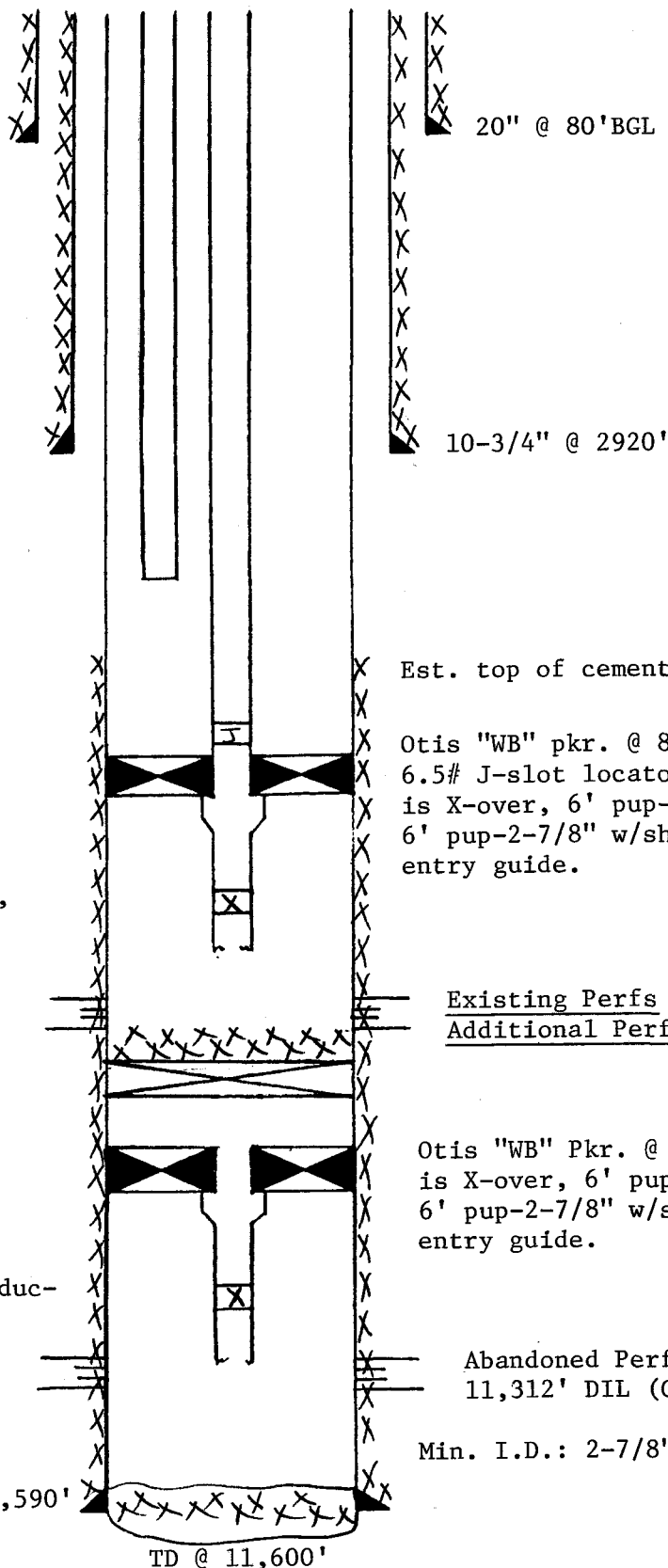
Dean #1-7C1

Section 7, T3S, R1W

Duchesne Co., Utah

BTS/JAW

8/83



2-3/8", 4.7#, N-80, A-95 heat
string @ 4976'

Tubing: 2-7/8", 6.5#, N-80, 8rd,
EUE ABC Mod. @ 8248'

CIBP @ 10,508'DIL. Dumped 5 sx.
cmt. on plug w/bailer.

2-7/8", 6.5# N-80, ABC Mod. Produc-
tion Tbg. @ 11,000'±

7-5/8" @ 11,590'

TD @ 11,600'

20" @ 80' BGL

10-3/4" @ 2920'

Est. top of cement @ 5000'±

Otis "WB" pkr. @ 8250'DIL w/a 2-7/8",
6.5# J-slot locator above. Below pkr.
is X-over, 6' pup-2-7/8", "X" nipple,
6' pup-2-7/8" w/shear out plug-re-
entry guide.

Existing Perfs @ 8356'-9636'(Gross)
Additional Perfs @ 9595'-10,416'DIL
(Gross)

Otis "WB" Pkr. @ 11,000'. Below pkr.
is X-over, 6' pup-2-7/8", "X" nipple,
6' pup-2-7/8" w/shear out plug, re-
entry guide.

Abandoned Perfs from 11,055' thru
11,312' DIL (Gross)

Min. I.D.: 2-7/8" "X" Nipple=3.313

Sonat Exploration Company
Post Office Box 1513
Houston TX 77251 1513
713 940 4000

RECEIVED
NOV 10 1986

SONAT EXPLORATION

November 5, 1986

DIVISION OF
OIL, GAS & MINING
RE: Dean #1-7C1
Nielsen #1-20B1
Sonat-Strand-Baranger #1-23B2
Washburn #1-2C2
Duchesne County, Utah

State of Utah
Natural Resources and Energy
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 84114

Gentlemen:

Enclosed in triplicate is Form OGC-1b, "Sundry Notices and Reports on Wells," concerning the subject wells.

If additional information is necessary, please contact Julie Ward at 713/940-4021.

Sincerely,



For D. T. McPherson
Supervisor of Production Engineering

JAW:by

Enclosures

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

111925

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR Sonat Exploration Company, Attn: J.A. Ward		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P.O. Box 1513, Houston, TX 77251-1513		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 671' FWL & 500' FSL of Section 7-T3S-R1W		8. FARM OR LEASE NAME Dean
14. PERMIT NO. 43-013-30739		9. WELL NO. 1-7C1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5255		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 7-T3S-R1W
		12. COUNTY OR PARISH Duchesne
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☒CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attachment.

18. I hereby certify that the foregoing is true and correct

SIGNED

DR Isenhardt

TITLE

Supv. of Prod. Eng.

DATE

11/6/86

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE

11-18-86

BY:

John R. Day

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Data on Present Zone

Wasatch Zone: Present perforations at 8356-10,416' OA

Average daily production for first 21 producing days in October 1986

Oil (BOPD) = 10

Gas (MCFPD) = 16

Water (BWPD) = 66

Reason for abandonment: The well is uneconomical to operate.

Proposed P&A Procedure

1. RU rig.
2. Install BPV in long string. ND tree. NU and test BOP's to 2500 psi.
3. RU on short string. POOH with tubing.
4. RU on long string. Establish injection rate of 3-4 BPM at maximum 4500 psi. Spot 150 sx C1 "G" cement to EOT. Sq 100 sx below pkr at 8250'. Leave 50 sx cement on top of pkr. POOH with tubing.
5. ND BOP's and tubing spool. Weld onto 7-5/8" casing and NU BOP's on 10-3/4" casing head. Cut 7-5/8" csg below surface pipe at 3050' and work free.
6. Spot 150 sx C1 "G" cement from 3050-2750'.
7. Spot 30 sx C1 "G" cement inside 10-3/4" csg. from 60' to surface. Cut off 10-3/4" csg 4' BGL. Weld 1/4" steel plate on 10-3/4" csg. Install dry hole marker on csg with well name, number, and location of well.
8. Will remove surface production equipment and perform a final location restoration.

Depth Reference; KB to THF _____; KB to MGL _____

Annulus Fluid: _____ ppg _____

Tree: 5000 Cameron psi WP

Type of Pump: _____

Unit Size: _____

SPM: _____

Stroke Length: _____

Type of Drive: _____

PROPOSED
MECHANICAL SKETCH

Otis "WB" PKr @ 8250'

CIBP @ 10508' w/ 55x Cmt
Otis "WB" PKr @ 11000'



Bluebell FIELD
Dean LEASE
#1-7C1 WELL

Completed: _____ / _____

Workover: _____ / _____, _____ / _____, _____ / _____

_____ TUBING _____

" #

Size Weight Thread Collars

Grade to Feet New/Used/Rerun Coating

10 3/4" csg. 51 # to 2920'

Remarks: TOL @ ±5000'

8356'-10416' OA

11055'-11312' OA w/ _____ JPF, _____ Zone

PBTD @ 10502'
75/2 csg. 33.70 # to 11590'
29.70 # to 9494'
26.40 # to 2253'

Prepared By: LRT Date: 9-3-86

Depth Reference; KB to THF _____; KB to MGL _____

Annulus Fluid: _____ ppg _____

Tree: 5000 Cameron psi WP

Type of Pump: _____

Unit Size: _____

SPM: _____

Stroke Length: _____

Type of Drive: _____

PRESENT
MECHANICAL SKETCH

Otis X SN @ 8260'; 2.313" ID

Otis "WB" Pkr @ 8250'

CIBP @ 10,508' w/ 5sx Cmt

Otis "WB" Pkr @ 11000'

Prepared By: LRT Date: 9-2-86

T.O.

11600'

Bluebell FIELD
Dean LEASE
#1-7C1 WELL

Completed: _____ / _____

Workover: _____ / _____, _____ / _____, _____ / _____

TUBING

Size	Weight	Thread	Collars
2 7/8"	6.5#	8rd	EUE

Grade	Feet	New/Used/Rerun	Coating
N-80	to 8250	New	None

2 3/8", 4.7 ppg N-80, A-95 Heat String @ 4976

10 3/4" csq. 51 # to 2920'

Remarks: TOL at I 5000'

8356' - 10416' OA

11055' - 11312' OA w/ _____ PF, _____ Zone

PSTD @ 10500'

csq.	#	to
75#	33.70	11590
	29.70	9494
	26.40	2253

Sonat Exploration Company
Post Office Box 151
Houston TX 77251-1513
713 940 4000

RECEIVED
OCT 13 1988

SONAT EXPLORATION

DIVISION OF
OIL, GAS & MINING

October 10, 1988

RE: Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

State of Utah
Natural Resources of Energy
Oil, Gas, and Mining
4241 State Office Building
Salt Lake City, UT 84114

Gentlemen:

Enclosed in triplicate is Form OGC-1b, "Sundry Notices and Reports on Wells" for the subject well.

If additional information is necessary, please contact Julie Ward at 713/940-4021.

Sincerely,



Carl K. Johnson
Director, Drilling

JAW:by

Enclosures

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Dean

9. WELL NO.

1-7C1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 7, T3S, R1W

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ P&A'd

2. NAME OF OPERATOR

Sonat Exploration Company, Attn: Julie Ward

3. ADDRESS OF OPERATOR

P.O. Box 1513, Houston, TX 77251-1513

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement. See also space 17 below.)

At surface

671' FWL & 500' FSL of Section 7, T3S, R1W

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO.

43-013-30739

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

5255'

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☒

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

See attachment.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Director, Drilling

DATE

10/10/88

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Dean #1-7C1
Section 7, T3S, R1W
Duchesne County, Utah

P&A Procedure

1. MI/RU well service rig on 9/6/88. Attempted to pump formation water down 2-7/8" longstring - unable to move wax plug.
2. RU on 2-3/8" shortstring and pumped hot oil to soften wax in 2-7/8" longstring. Attempted to pump out wax plug with no success. ND tree. NU BOPs. POOH and LD shortstring. Release longstring from packer at 8250'. POOH with 40 doubles. Pumped out wax plug.
3. TIH and stung back into packer. Established an injection rate of 3 BPM at 3100 psi. Released from packer. Pumped 10 bbls freshwater followed by 150 sx C1 "G" cement to EOT. Stung into packer. Squeezed 100 sx C1 "G" cement below packer. Released from packer and spotted 50 sx C1 "G" cement from 8230-8010'. POOH and LD longstring. Squeezed 30 sx C1 "G" cement down 10-3/4" x 7-5/8" annulus as per John Berrimer and Gary Gardner, State of Utah; Oil, Gas, and Mining.
4. Filled 10-3/4" x 7-5/8" annulus with 8/10 of a bbl of water. Tested to 1000 psi - OK.
5. Pumped 15 sx C1 "G" cement down 7-5/8" followed by 1/2 bbl water. Noticed cement did not set up after 5 hours. Pumped 50 sx C1 "G" cement with 2% chloride and 12% CalSeal at 700 psi. Witnessed by Gary Gardner and John Berrimer with State of Utah; Oil, Gas, and Mining.
6. Tested 7-5/8" casing plug to 2000 psi - OK. ND BOPs. NU tree. RD/MO service rig.
7. Cut off conductor pipe, 10-3/4" and 7-5/8" casing. Mixed 4 sx C1 "G" cement, filled casing and surface pipe to surface with cement. Welded data plate on top of casing with well data as per Gary Gardner with State of Utah; Oil, Gas, and Mining. Well P&A'd on ~~9/12/88~~



APPLIED DRILLING SERVICES, INC.

OILFIELD CONSULTANTS AND OPERATIONS MANAGEMENT

Rt. 1 Box 1764
Roosevelt, Utah 84066
801-722-5087

January 24, 1989

P.O. Box 620554
Littleton, Colorado 80127
303-973-6189

RECEIVED
FEB 01 1989

Ms Arlene Sollis
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

DIVISION OF
OIL, GAS & MINING

Dear Arlene:

35 - W - 2
43-013-
30786 — Enclosed are the final records and land owners agreements between Sonat Exploration Company and the land owners on the Dean 1-7C1, Washburn 1-2C2 and Barranger 1-23B2. As indicated in my conversation with Jim Thompson, these agreements will satisfy your records so that Sonat's bond might be released.

43-013-30739
35 1W-7

If you should have any questions, please feel free to contact me at 801-722-5087.

Sincerely,

Cary Smith, President
APPLIED DRILLING SERVICES, INC.

Enclosures

SONAT EXPLORATION

October 26, 1988

RE: Dean #1-7C1
Duchesne County, UT
35 1W S-7

This will confirm our understanding that you agree that Sonat Exploration Company has adequately restored the surface of the subject land to your satisfaction and do hereby release Sonat Exploration Company, its successors and assigns from any action, claim or demand against it occasioned by the drilling of the subject well.

Please acknowledge by signing in the space provided below.

Thank you for your cooperation.

Sincerely,

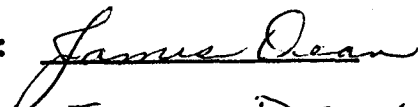


M. J. Simon
Drilling Manager

MJS:by

Accepted and agreed to this 23 day of Nov., 1988.

Signed:


JAMES DEAN
Print Name